
Full-Scale Hingeless Rotor Performance and Loads

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Nomenclature

c	blade chord, ft	R	rotor radius, ft
CLRH/S	ratio of rotor lift force coefficient to solidity, wind axis, lift/ $\rho S(\Omega R)^2$	ROLLH,S	rotor roll moment in the shaft or hub axis system, positive right-wing down, ft-lb
CP/S	ratio of rotor power coefficient to solidity, rotor power/ $\rho S(\Omega R)^3$	S	rotor reference area, $4cR$, ft ²
C_T/σ , CTH/S	ratio of rotor thrust coefficient to solidity, rotor thrust/ $\rho S(\Omega R)^2$	SIDEH,S	rotor side force in the shaft or hub axis system, positive right, lb
CXRH/S	ratio of rotor propulsive force coefficient to solidity, wind axis, -drag/ $\rho S(\Omega R)^2$	TORQ,C	rotor shaft torque in the shaft or hub axis system, positive clockwise, ft-lb
DRAGH,S	rotor drag force in the shaft or hub axis system, positive aft, lb	V	tunnel velocity, ft/sec
FMERIT	rotor figure of merit, $\frac{C_T^{3/2}}{C_P \sqrt{2}}$	α	rotor shaft angle, positive shaft tilt aft, deg
LIFTH,S	rotor lift force in the shaft or hub axis system, positive up, lb	μ , V/OR	advance ratio, $V/\Omega R$
P	per rev	ρ	air density, slug/ft ³
PITCHH,S	rotor pitch moment in the shaft or hub axis system, positive nose up, ft-lb	σ	rotor solidity, $S/\pi R^2$
Q	corrected tunnel dynamic pressure, $0.5 \rho V^2$, lb/ft ²	ω_ζ	rotor-blade fundamental inplane bending frequency, rad/sec
		Ω	rotor rotational speed, rad/sec

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Summary

A full-scale BO-105 hingeless rotor system was tested in the NASA Ames 40- by 80-Foot Wind Tunnel on the rotor test apparatus. Rotor performance, rotor loads, and aeroelastic stability as functions of both collective and cyclic pitch, tunnel velocity, and shaft angle were investigated. This test was performed in support of the Rotor Data Correlation Task under the U.S. Army/German Memorandum of Understanding on Cooperative Research in the Field of Helicopter Aeromechanics. The primary objective of this test program was to create a data base for full-scale hingeless rotor performance and structural blade loads. A secondary objective was to investigate the ability to match flight test conditions in the wind tunnel. This data base can be used for the experimental and analytical studies of hingeless rotor systems over large variations in rotor thrust and tunnel velocity. Rotor performance and structural loads for tunnel velocities from hover to 170 knots and thrust coefficients (C_T/σ) from 0.0 to 0.12 are presented in this report. Thrust sweeps at tunnel velocities of 10, 20, and 30 knots are also included in this data set.

Introduction

Wind tunnel test measurements, flight test measurements, and analytical prediction play key roles in the development of new rotor systems. Tests are typically performed using a range of rotor system sizes and wind tunnel test facilities. To assure the accuracy of wind tunnel testing methodology, a validation study is in progress using test results from model- and full-scale tests in comparison with flight test data. This comparison will allow for a determination of the ability to accurately predict helicopter flight behavior from wind tunnel experiments and the influence of the test facility on these results. Experimental data from a series of wind tunnel tests, including both model- and full-scale experiments, will be studied to determine the extent to which wind tunnel test results can be used to predict flight behavior.

The primary objective of this test program was to create a data base for full-scale hingeless rotor performance and structural blade loads over a wide range of rotor thrusts and tunnel velocity. A secondary objective was to investigate the ability to match flight test measurements

in the wind tunnel based on the results of a BO-105 flight test program (ref. 1), conducted by the Deutsche Forschungsanstalt für Luft- und Raumfahrt e.V. (DLR), Braunschweig, Germany, under the Rotor Data Correlation Task of the U.S. Army/German Memorandum of Understanding on Cooperative Research in the Field of Helicopter Aeromechanics. This report presents rotor performance and structural blade loads data for tunnel velocities from hover to 170 knots and thrust coefficients (C_T/σ) from 0.0 to 0.12. Thrust sweeps at tunnel velocities of 10, 20, and 30 knots are also included in this data set. A limited amount of data was acquired for simulated steady level flight conditions ($C_T/\sigma = 0.071$ and 0.089) from 40 knots to 130 knots.

This report documents the test program and presents the rotor performance and structural blade loads for selected test conditions. The test conditions that are documented in this report are identified in Appendix A. Hover rotor performance data are presented in Appendix B. Forward flight (minimized flapping trim) rotor performance data are presented in Appendix C. Flight test correlation (prescribed hub moment trim) rotor performance data are presented in Appendix D. Rotor blade structural loads as measured in hover are presented in Appendix E. Forward flight (minimized flapping trim) rotor blade structural loads data are presented in Appendix F. The flight test correlation (prescribed hub moment trim) rotor blade structural loads data are presented in Appendix G.

Test Hardware

The BO-105 helicopter rotor system is a four-bladed, soft inplane ($\omega_\zeta < \Omega$) hingeless rotor with constant chord (0.886 ft), -8 deg linear twist, and a NACA 23012 cambered airfoil. The rotor radius is 16.11 ft; solidity (σ) is 0.07. The rotor hub has 2.5 deg of built-in coning and zero droop or sweep of the blade outboard of the pitch bearing. The general characteristics of the main rotor are summarized in table 1. Additional details about the rotor system are presented in reference 2.

The BO-105 hingeless rotor was installed on the rotor test apparatus (RTA) as shown in figure 1. The RTA is a special-purpose drive and support system for operating helicopter rotors in the 40- by 80- and 80- by 120-Foot

Wind Tunnels. It houses two electric drive motors, the hydraulic servo-actuators of the primary control system, and a dynamic control system capable of introducing dynamic perturbations to the nonrotating swashplate (collective and tilt) at frequencies up to 40 Hz. Installed on the RTA is a five-component balance to measure rotor loads at the hub moment center. This balance was designed and fabricated to measure both the steady and vibratory rotors' normal, axial, and side forces, together with rotor pitch and roll moments to rotor thrust levels of 22,000 lb. An instrumented flex-coupling measures rotor torque and residual normal force. The peak load capacities for the rotor balance are 22,000 lb of normal force, 4,400 lb of resultant shear force, and 57,800 ft-lb of resultant moment at the balance moment center. The maximum resultant hub moment is dependent upon the installed hub height above the balance moment center. The balance shares a common centerline with the rotor shaft. The rotor shaft has an in-line flex-coupling, which is instrumented to measure rotor torque up to a maximum of 36,000 ft-lb and the residual normal force up to a calibrated limit of 200 lb. The accuracy of the balance at the balance moment center, based on the calibration results for both the single and combined loading sequences, was determined to be better than 0.5 percent of the full-scale load capacity.

Instrumentation for the wind tunnel test included the five-component rotor balance and instrumented flex-coupling, thirty-seven blade bending and torsional moment measurements (distributed among the four blades), one rotating pitch-link measurement, one blade pitch angle measurement (at the pitch bearing), three stationary control system measurements, and standard wind tunnel operating condition measurements. The blade instrumentation is shown schematically in figure 2. Identical measurements, on all four blades, at radial stations $r/R = 0.10$ (flap and chord), $r/R = 0.144$ (flap and chord), and $r/R = 0.40$ (torsion) were made in the wind tunnel test program. Blade number one was composed primarily of the distributed flap bending measurements, while blade number three was composed primarily of the distributed chord bending and torsional moment measurements. Not all of the measurements shown in figure 2 are presented in this report. Tables 2 and 3 present the descriptions of the selected instrumentation, blade location (if appropriate), measurement units, and the positive sign conventions for the rotating system and fixed system measurements, respectively.

For a large portion of the test program, the collective and cyclic control values were resolved from the three fixed-system actuator displacements on the RTA. In the latter stages of the test program, a direct measurement of blade

pitch (at the pitch bearing, in the rotating system) on blade number one was installed and calibrated. The accuracy of the blade pitch transducer, from the collective calibration, is better than 0.1 deg. Relative to the blade pitch transducer, the accuracy of the resolved collective and cyclic pitch angles from the fixed-system actuator displacements is rather poor and on the order of 0.2 to 0.3 deg within the range of normal collective and cyclic pitch operation. The blade pitch settings presented in this report are referenced to the 0.7R radial station.

Test Procedures

The rotor was tracked and balanced initially in hover. Rotor tracking was verified to an airspeed of 140 knots for 1-g rotor thrust ($C_T/\sigma = 0.071$) at a rotor azimuth of approximately 90 deg. All four blades tracked to within one-half of the blade thickness throughout the tunnel velocity sweep. No attempts were made to track the rotor at other azimuth positions because of the limitations of suitable viewing ports within the test section walls. There were also no adjustments made to the rotor blade trim tabs. Because of limitations in the location and the amount of balancing weight that could be implemented on this rotor system, the rotor was balanced to a once-per-revolution (1P) shear force level of approximately 90–95 lb as indicated by the rotor balance. This imbalance is largely a result of differences in the amount of instrumentation that is distributed among the four blades.

Test conditions in the wind tunnel were obtained by establishing shaft angle, advance ratio μ (or tunnel velocity), and rotor thrust, and then adjusting cyclic inputs to achieve either a minimized flapping condition or a prescribed hub moment trim. The majority of the test program was conducted for the minimized flapping condition. A limited amount of data was acquired for the prescribed hub moment trim (simulated steady level flight). Minimized flapping trim was based on a flap bending measurement at $r/R = 0.144$ on reference blade number one. Minimized flapping was accomplished by adjusting the cyclic pitch inputs on the rotor control console until the 1P flapping was minimized on a display to the rotor operator. Prescribed hub moment trim was achieved when the fixed-system pitch and roll moments, as measured by the rotor balance, matched the 1P rotating shaft bending measurements from the BO-105 flight test program (ref. 1). The 1P *Cosine* value corresponds to the hub pitch moment and the 1P *Sine* value corresponds to the hub roll moment. The collective pitch setting was adjusted to have rotor thrust match the aircraft takeoff weight minus the fuel burn.

The procedures for setting on a simulated flight condition in the wind tunnel began by first adjusting the shaft angle-of-attack α , tunnel velocity, rotor thrust, and cyclic pitch settings to provide a minimized flapping baseline condition. The second step was setting rotor rotational speed and then further adjustment of tunnel velocity for the proper advance ratio μ . The final step was the adjustment of cyclic pitch controls until the real-time numerical display for hub pitch and roll moments, as measured by the RTA balance, corresponded with the values of the aircraft hub pitch and roll measurements. Additional information pertaining to the flight test correlation (prescribed hub moment trim), along with both experimental and analytical correlation results, can be found in reference 3.

Aerodynamic Tares

The blades-off aerodynamic tares for the rotor hub, shaft, and control system were obtained for tunnel velocities from 30 knots to 200 knots at a nominal rotor speed of 425 rpm. The tares are presented in the hub (shaft) axis system. The positive sign conventions used for the force and moment tares are shown in table 3. The tares were curve-fit to be functions of shaft angle-of-attack α and tunnel dynamic pressure Q as shown below.

$$\text{LIFTH, } S = 90.264 + 2.8456 \alpha + 0.02172 \alpha^2 + 0.008934 \alpha^3 + 0.32529 Q + 0.002194 Q^2$$

$$\text{DRAGH, } S = -36.708 - 1.5592 \alpha - 0.16014 \alpha^2 - 0.004051 \alpha^3 + 4.20506 Q - 0.001162 Q^2$$

$$\text{SIDEH, } S = 10.001 + 1.2551 \alpha + 0.03071 \alpha^2 - 0.000940 \alpha^3 - 1.11106 Q + 0.004923 Q^2$$

$$\text{PITCHH, } S = 186.015 + 6.7633 \alpha + 0.84404 \alpha^2 + 0.027071 \alpha^3 - 3.48317 Q - 0.010599 Q^2$$

$$\text{ROLLH, } S = -45.556 - 7.0716 \alpha - 0.19702 \alpha^2 + 0.004829 \alpha^3 + 4.770928 Q - 0.023838 Q^2$$

$$\text{TORQ, } C = 47.241 - 1.0486 \alpha + 0.02384 \alpha^2 + 0.000990 \alpha^3 + 2.21413 Q - 0.000401 Q^2$$

A subset of the aerodynamic tare data and the corresponding curve-fit relations are shown in figures 3(a-f). The data and the corresponding curve-fits shown in figure 3 have been normalized by the tunnel dynamic pressure Q .

What appears to be rather poor curve-fits to the data in figures 3(a-e) at a tunnel dynamic pressure of 12 lb/ft² is in reality a good representation of the balance accuracies under combined loading. In general, the quality of the calculated curve-fits to the measured data increases with increasing tunnel dynamic pressure.

Hover Rotor Performance

Performance data for hover conditions are presented in tabular form in Appendix B and graphically in figure 4. Data are grouped in terms of thrust sweeps for shaft angles-of-attack α of 0 deg and -10 deg. The rotor control positions presented in Appendix B are based on the fixed-system actuator positions. Hover testing was conducted with the tunnel access doors open to minimize the influence of the facility on the data. However, as the run progressed, a slight buildup of tunnel air velocity occurred within the tunnel circuit, resulting in a dynamic pressure indication in the wind tunnel instrumentation and nonzero values of tunnel velocity in the data base.

Rotor power and figure of merit as a function of rotor thrust are shown in figure 4. Rotor power coefficient as a function of rotor thrust coefficient is shown in figure 4(a) for shaft angles-of-attack α of 0 deg and -10 deg. Rotor figure of merit as a function of rotor thrust coefficient is shown in figure 4(b) for the same test points shown in figure 4(a).

Forward Flight Rotor Performance

Performance data for forward flight conditions with minimized flapping trim are presented in tabular form in Appendix C and graphically in figures 5-21. Data are grouped in terms of shaft angles-of-attack α and increasing tunnel velocity. The rotor control positions presented in Appendix C are based on the fixed-system actuator positions. The test logs presented in Appendix A should be consulted for identification of test conditions tabulated in Appendix C. No wall corrections have been applied to these data.

Figures 5-21 present a limited portion of the performance data tabulated in Appendix B. Rotor propulsive force coefficient and rotor power coefficient as functions of rotor lift coefficient for fixed shaft angles-of-attack α at tunnel velocities from 10 to 170 knots are shown in figures 5-17. Rotor power coefficient as a function of advance ratio μ for fixed shaft angles-of-attack α and for constant rotor thrust coefficient is shown in figures 18-21.

Performance data for simulated flight conditions with prescribed hub moment trim for two different thrust

conditions are presented in tabular form in Appendix D and graphically in figures 22 and 23. Data are grouped in terms of constant rotor thrust as a function of increasing tunnel velocity. The rotor control positions presented in Appendix D are based on the blade pitch transducer in the rotating system. The run logs presented in Appendix A should be consulted for identification of the test conditions tabulated in Appendix D. No wall corrections have been applied to these data.

Figures 22 and 23 present a limited portion of the performance data tabulated in Appendix C. Rotor propulsive force coefficient and rotor power coefficient as functions of advance ratio μ are shown for three different trim procedures used to establish a test condition in the wind tunnel and two different rotor thrust conditions.

Rotor Blade Structural Loads

At each test condition, steady-state dynamic structural blade loads data were obtained. Due to the large amount of rotor instrumentation in this test program, a selected set of rotor blade measurements is presented for all hover and forward flight test conditions. The measurements presented and their positive sign conventions are given in table 2. Measurements with zero values in Appendices E, F, and G indicate that the instrumentation for that particular channel was not functioning properly during that run, or was considered unreliable for that particular data point.

The hover dynamic structural blade loads are tabulated in Appendix E. For each of the measurements tabulated, the time-averaged mean, root-mean-square value, and the one-half peak-to-peak value (absolute maximum minus the absolute minimum divided by 2) are presented.

The forward flight dynamic structural blade loads for minimized flapping trim are tabulated in Appendix F. The simulated flight condition dynamic structural blade loads are tabulated in Appendix G. For each of the measurements, the time-averaged mean, root-mean-square value, the one-half peak-to-peak value (absolute maximum minus the absolute minimum divided by 2), and the first eight harmonics expressed in terms of *Cosine* and *Sine* components are presented.

As discussed previously in the paper, the wind tunnel test was conducted with a rotor system having identical measurements on each blade near the root for flap and chord bending ($r/R = 0.104$ and $r/R = 0.144$). Each blade also had an identical torsional moment measurement at $r/R = 0.40$. Figure 24 presents a comparison of oscillatory (1–8 harmonics) flap bending at $r/R = 0.144$ for all four blades for a prescribed hub moment trim condition for 1-g

thrust ($C_T/\sigma = 0.071$) at an advance ratio of $\mu = 0.197$ and a shaft angle-of-attack $\alpha = -4.8$ deg. The reasons for these differences, which tend to increase slightly as a function of airspeed, have yet to be fully explained, other than blade-to-blade dissimilarities. As was discussed previously, the rotor was tracked and balanced initially in hover and then verified to an airspeed of 140 knots for 1-g rotor thrust ($C_T/\sigma = 0.071$). Refer to the Test Procedures section of this report for further information regarding the rotor track and balance. Figure 25 presents a comparison of oscillatory (1–8 harmonics) chord bending at $r/R = 0.144$ for all four blades for the same test conditions as figure 24. Figure 26 presents a comparison of oscillatory (1–8 harmonics) torsional moment at $r/R = 0.400$ for three of the four blades for a prescribed hub moment trim condition for the same test conditions shown in figures 24 and 25. The torsion gauge on blade two was nonoperational during the run in which these data were acquired.

Figures 27–29 present oscillatory time histories (1–8 harmonics) for flap and chord bending and torsional moment at several blade radial stations for the three different trim procedures used to establish a test condition in the wind tunnel. The results presented are for 1-g thrust ($C_T/\sigma = 0.071$) at an advance ratio of $\mu = 0.197$ and a shaft angle-of-attack $\alpha = -4.8$ deg. Figure 27 is a comparison of oscillatory flap bending moment time histories at two blade radial locations ($r/R = 0.144$ and $r/R = 0.57$). As shown in figure 27(a), distinct differences are noted at the inboard radial station ($r/R = 0.144$) between the prescribed hub moment trim procedure and the trim procedures for minimized flapping or prescribed cyclics. These differences are almost entirely a function of the 1P control input for trim. Harmonic analysis indicates that the higher frequency loading (2P–8P) is basically unchanged as a function of the trim procedure and that differences are similar to those shown in figure 27(b). Small differences in the measured flap bending moment are noted at the midspan ($r/R = 0.57$) radial station as shown in figure 27(b).

Figure 28 is a comparison of oscillatory chord bending moment time histories at two blade radial locations ($r/R = 0.144$ and $r/R = 0.57$) at the same test condition as figure 27, and for the same three wind tunnel trim procedures used in the wind tunnel. Again, distinct differences are noted at the inboard radial station ($r/R = 0.144$) between the prescribed hub moment trim procedure and the trim procedures for minimized flapping or prescribed cyclics. As in figure 27(a), these differences are almost entirely a function of the 1P control input for trim, with very little change in the higher frequency loading. The significant observation in figure 28(a) is the decrease in the oscillatory chordwise bending moment by

approximately a factor of 2 with the prescribed hub moment trim approach relative to the minimized flapping trim approach. Unlike the flap bending moment comparison in the previous figure (fig. 27(b)), small but distinct differences in the measured chord bending moment are noted at the midspan ($r/R = 0.57$) radial station as shown in figure 28(b).

Figure 29 is a comparison of oscillatory torsional moment time histories at one blade radial location ($r/R = 0.40$) at the same test condition as figures 27 and 28, and for the same three wind tunnel trim procedures used in the wind tunnel. The torsional loading is essentially unchanged as a function of the trim procedure. However, small differences are noted, and these differences appear to be slight phase shifts and small changes in magnitude.

Concluding Remarks

A full-scale BO-105 hingeless rotor system was tested in the NASA Ames 40- by 80-Foot Wind Tunnel on the rotor test apparatus. Rotor performance, rotor loads, and aeroelastic stability as functions of both collective and cyclic pitch, tunnel velocity, and shaft angle were

investigated. This test was performed in support of the Rotor Data Correlation Task under the U.S. Army/German Memorandum of Understanding on Cooperative Research in the Field of Helicopter Aeromechanics.

References

1. Langer, H. J.; and Tränapp, N.: BO105 Flight Test Data for a Wind Tunnel Test Program. Deutsche Forschungsanstalt für Luft- und Raumfahrt e.V., DLR-IB111-93/58, Institut für Flugmechanik, Braunschweig, Germany, Sept. 1993.
2. Staley, J. A.: Validation of Rotorcraft Flight Simulation Program through Correlation with Flight Data for Soft In-Plane Hingeless Rotors. USAAMRDL TR-75-50, Jan. 1976.
3. Peterson, R. L.; Maier, T.; Langer, H. J.; and Tränapp, N.: Correlation of Wind Tunnel and Flight Test Results of a Full-Scale Hingeless Rotor. Proceedings of the American Helicopter Society Aeromechanics Specialist Conference, San Francisco, Calif., Jan. 1994.

Table 1. General characteristics of the BO-105 main rotor

Type	Hingeless
Radius (ft)	16.11
Number of blades	4
Blade chord (ft)	0.886
Linear blade twist (deg)	-8
Precone (deg)	2.5
Solidity, σ	0.07
Reference area, S (ft^2)	57.1
Nominal rotor speed (rpm)	425
Nominal tip speed (ft/sec)	717
Airfoil section	NACA 23012

Table 2. Rotating system measurements

Measurement	Blade number	Location (r/r)	Units	Sign convention
Flap bending	1,2,3,4	0.144	in.-lb	Tip up
Flap bending	1	0.167	in.-lb	Tip up
Flap bending	1	0.215	in.-lb	Tip up
Flap bending	1	0.280	in.-lb	Tip up
Flap bending	1	0.325	in.-lb	Tip up
Flap bending	1	0.570	in.-lb	Tip up
Flap bending	1	0.725	in.-lb	Tip up
Flap bending	1	0.800	in.-lb	Tip up
Flap bending	1	0.900	in.-lb	Tip up
Chord bending	1,2,3,4	0.144	in.-lb	Leading edge tension
Chord bending	3	0.174	in.-lb	Leading edge tension
Chord bending	3	0.325	in.-lb	Leading edge tension
Chord bending	3	0.450	in.-lb	Leading edge tension
Chord bending	1	0.570	in.-lb	Leading edge tension
Torsional moment	1,3,4	0.400	in.-lb	Pitch up
Blade pitch	1	Pitch bearing		deg
Pitch link	1		lb	Tension
Rotor shaft torque			in.-lb	Clockwise

Table 3. Fixed system measurements

Measurement	Location	Units	Sign convention
Lift	Rotor balance	lb	Up
Drag	Rotor balance	lb	Aft
Side	Rotor balance	lb	Right
Pitch	Rotor balance	ft-lb	Nose up
Roll	Rotor balance	ft-lb	Right-wing down
Yaw	Rotor balance	ft-lb	Right-wing forward

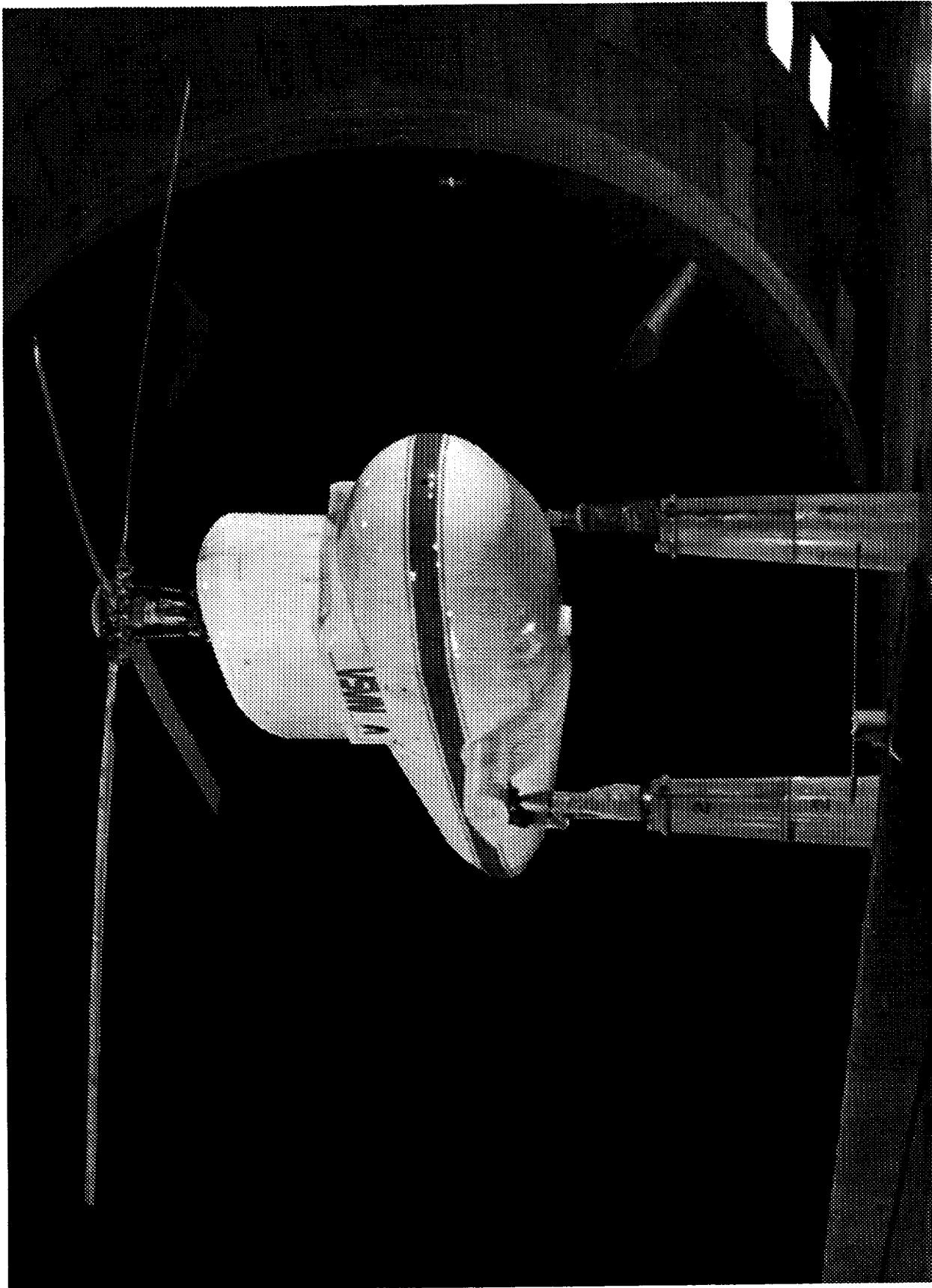


Figure 1. BO-105 rotor system on the Ames rotor test apparatus (RTA) in the 40- by 80-Foot Wind Tunnel Test Section.

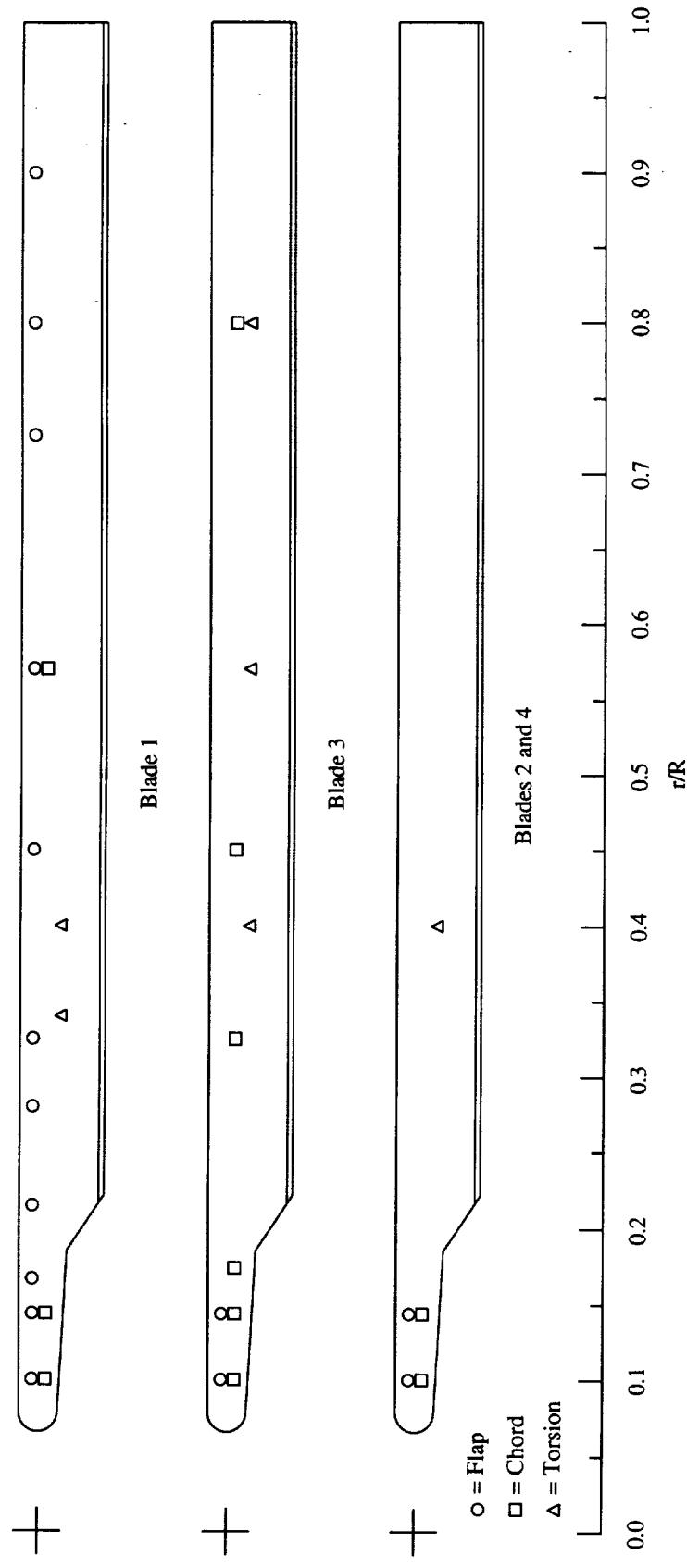


Figure 2. Radial locations of flap, chord, and torsion instrumentation for the wind tunnel test program.

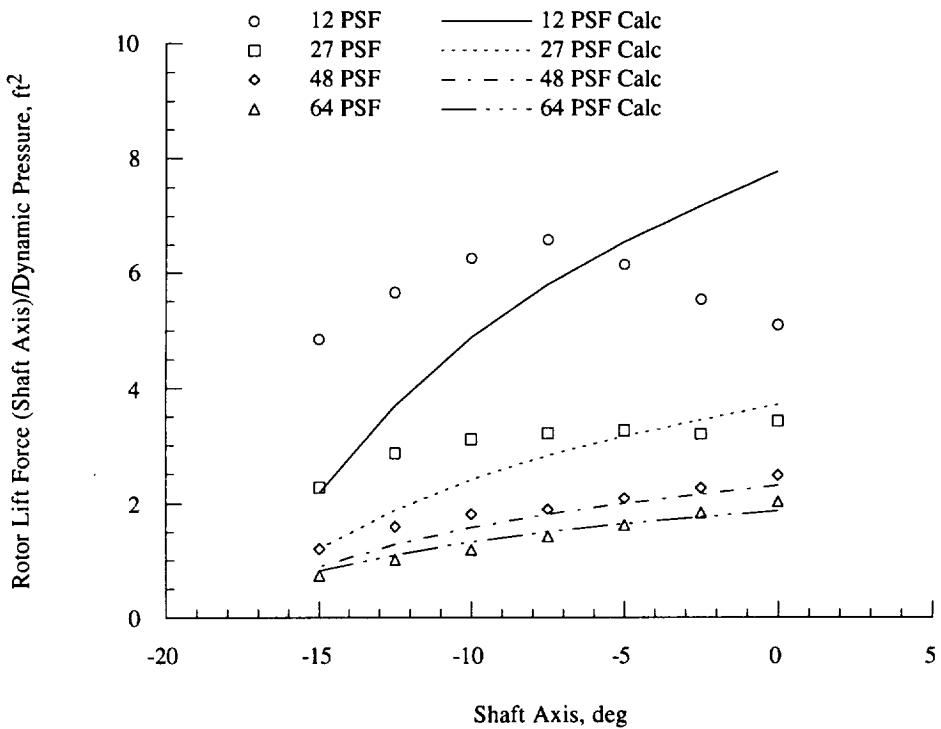


Figure 3(a). Rotor hub/shaft aerodynamic tares, rotor lift force (shaft axis) as a function of shaft angle.

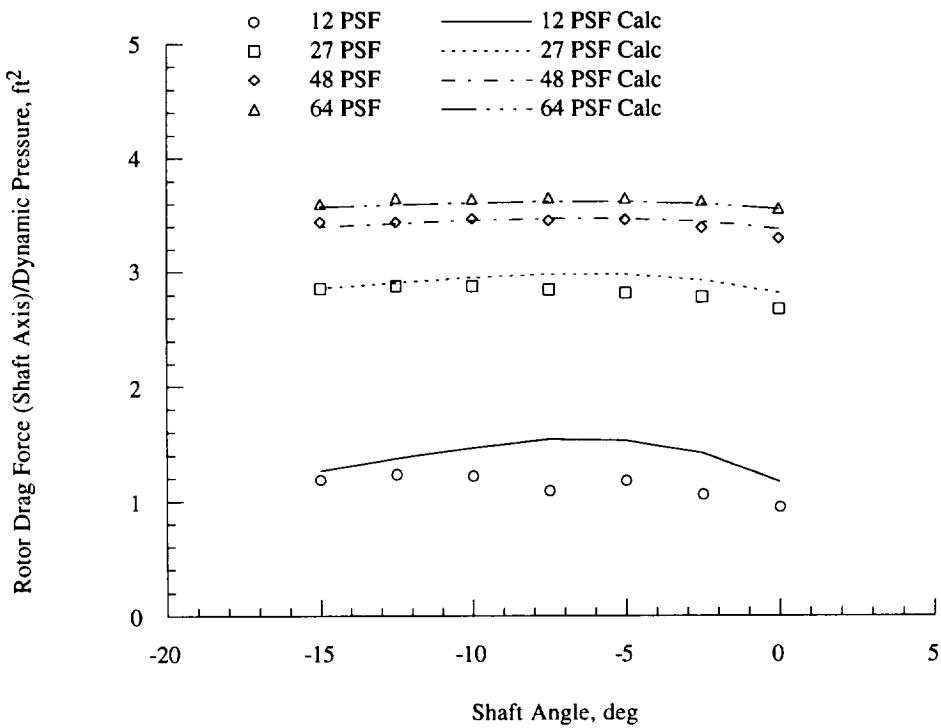


Figure 3(b). Rotor hub/shaft aerodynamic tares, rotor drag force (shaft axis) as a function of shaft angle.

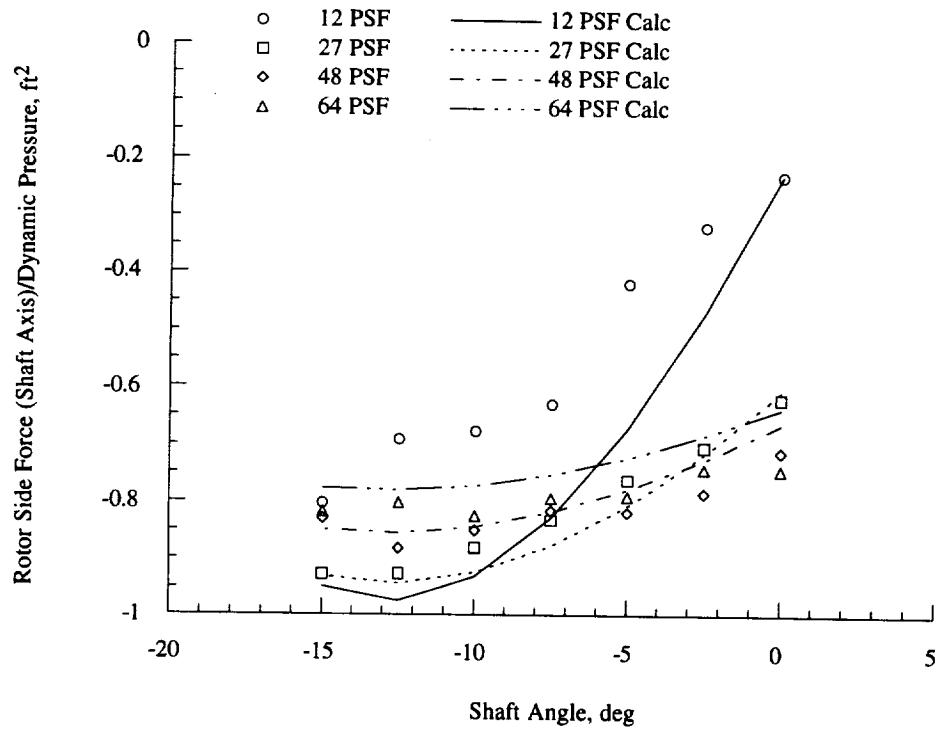


Figure 3(c). Rotor hub/shaft aerodynamic tares, rotor side force (shaft axis) as a function of shaft angle.

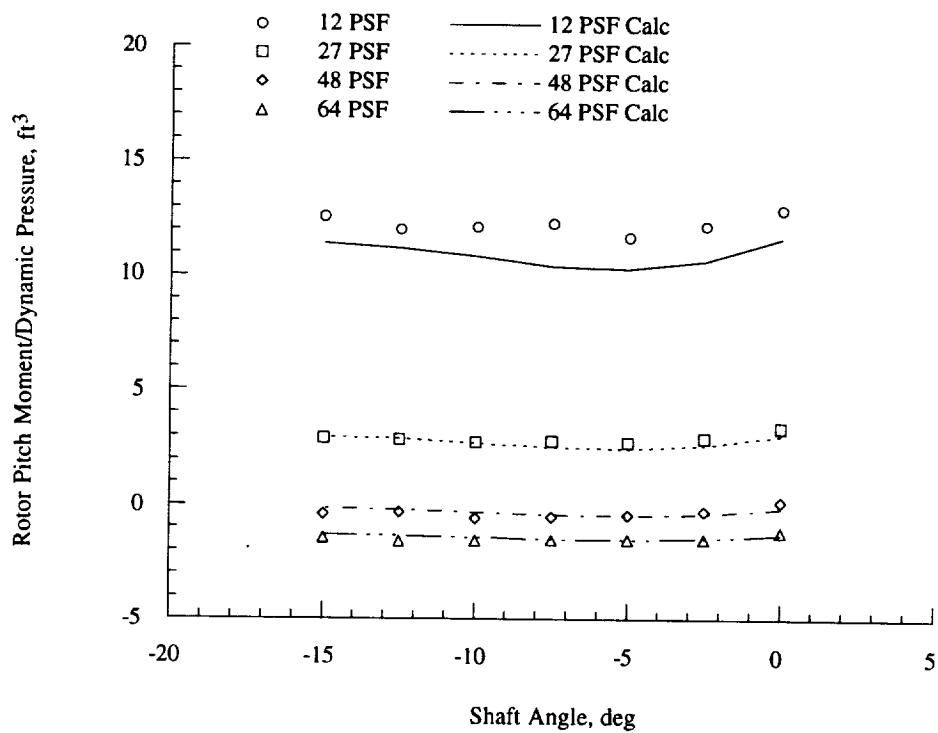


Figure 3(d). Rotor hub/shaft aerodynamic tares, rotor pitch moment as a function of shaft angle.

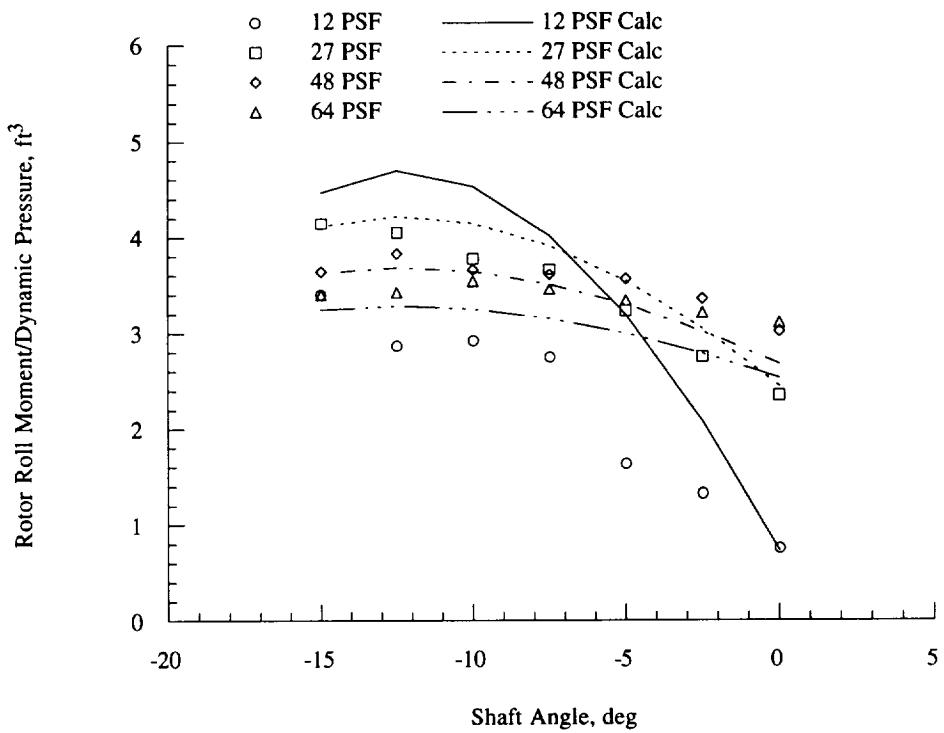


Figure 3(e). Rotor hub/shaft aerodynamic tares, rotor roll moment as a function of shaft angle.

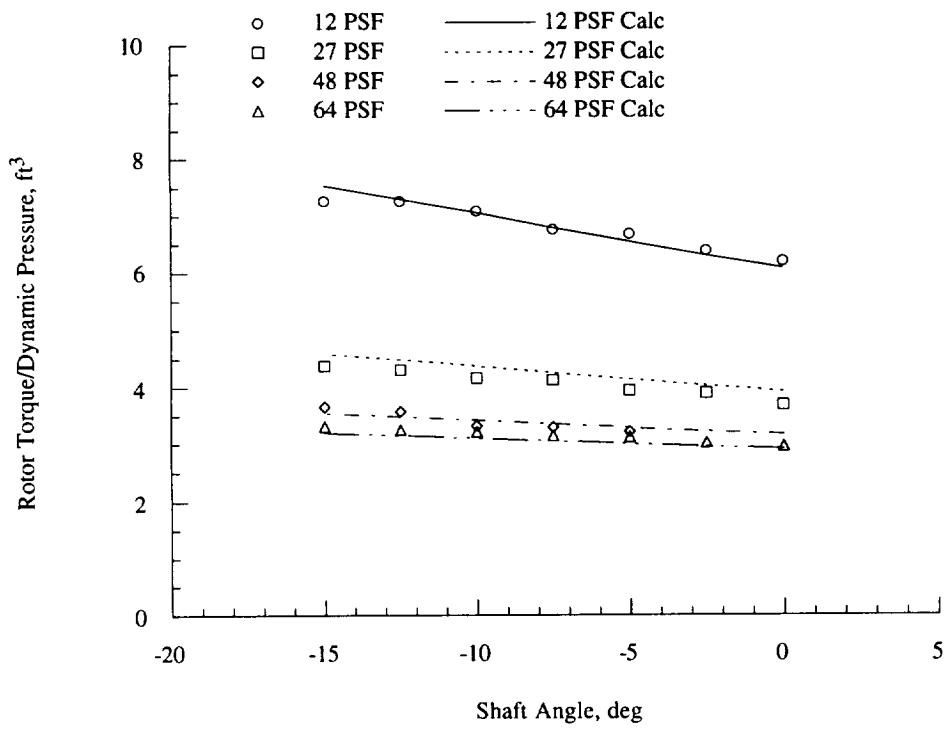


Figure 3(f). Rotor hub/shaft aerodynamic tares, rotor torque as a function of shaft angle.

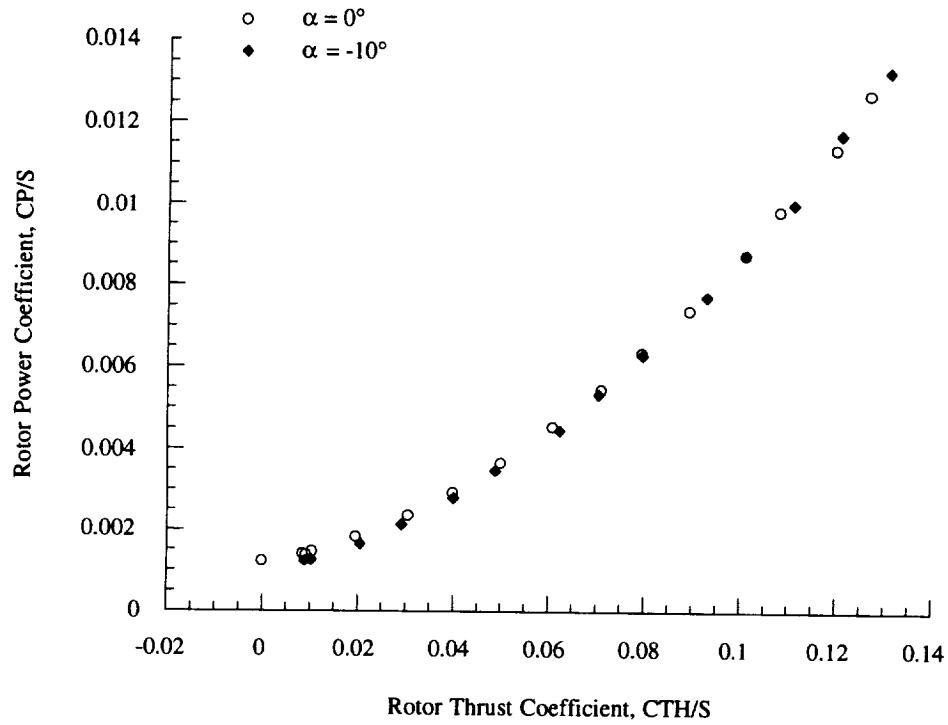


Figure 4(a). Rotor power coefficient as a function of rotor thrust coefficient, hover.

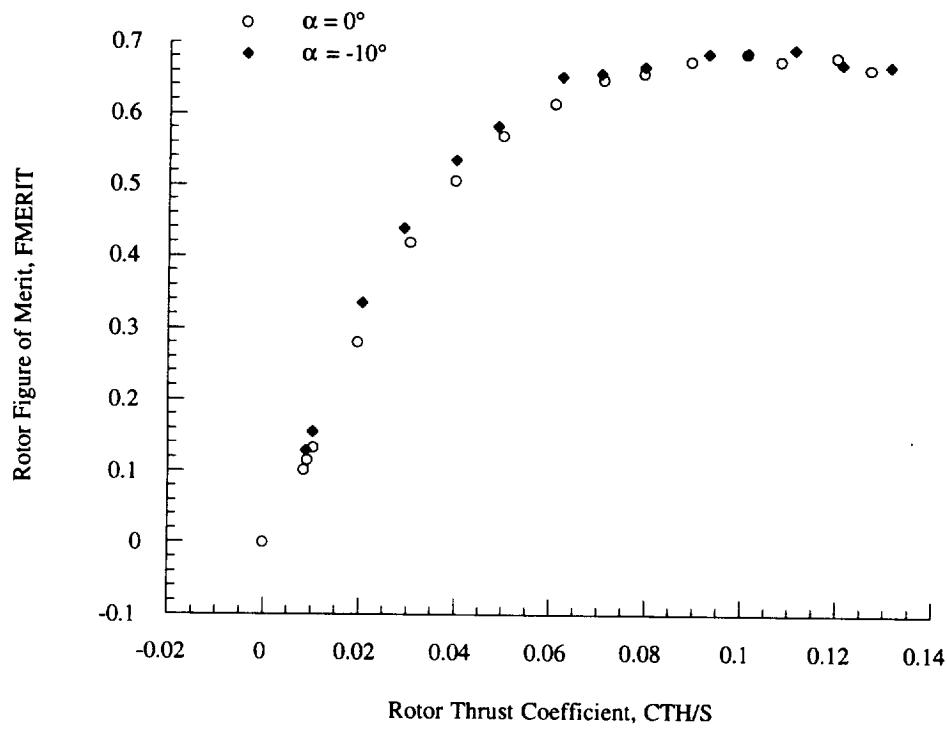


Figure 4(b). Rotor figure of merit as a function of rotor thrust coefficient, hover.

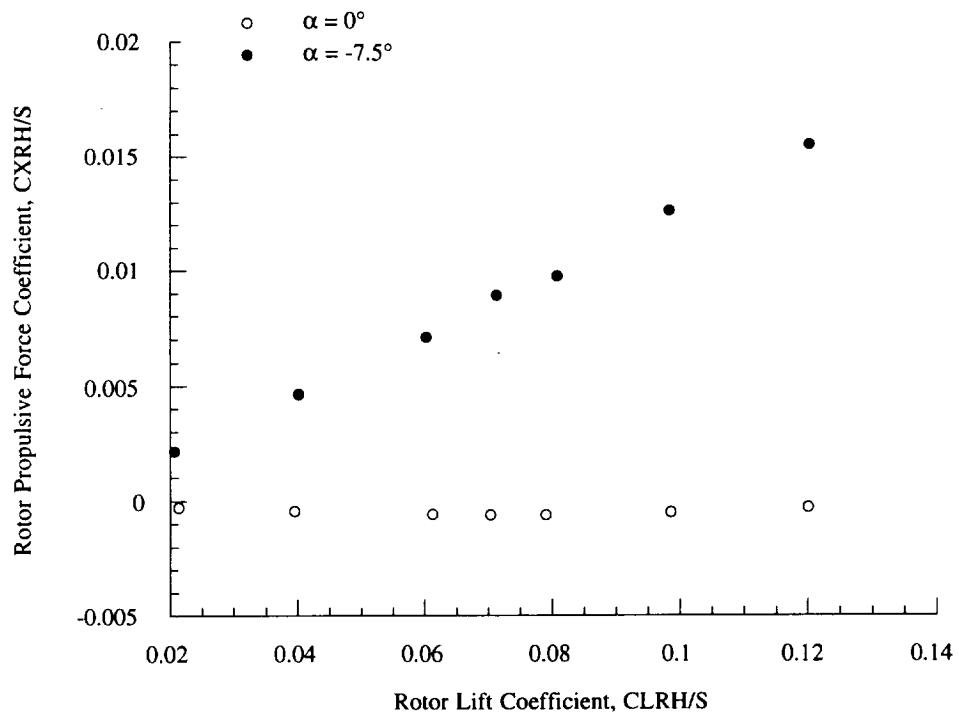


Figure 5(a). Rotor propulsive force coefficient as a function of rotor lift coefficient, 10 knots.

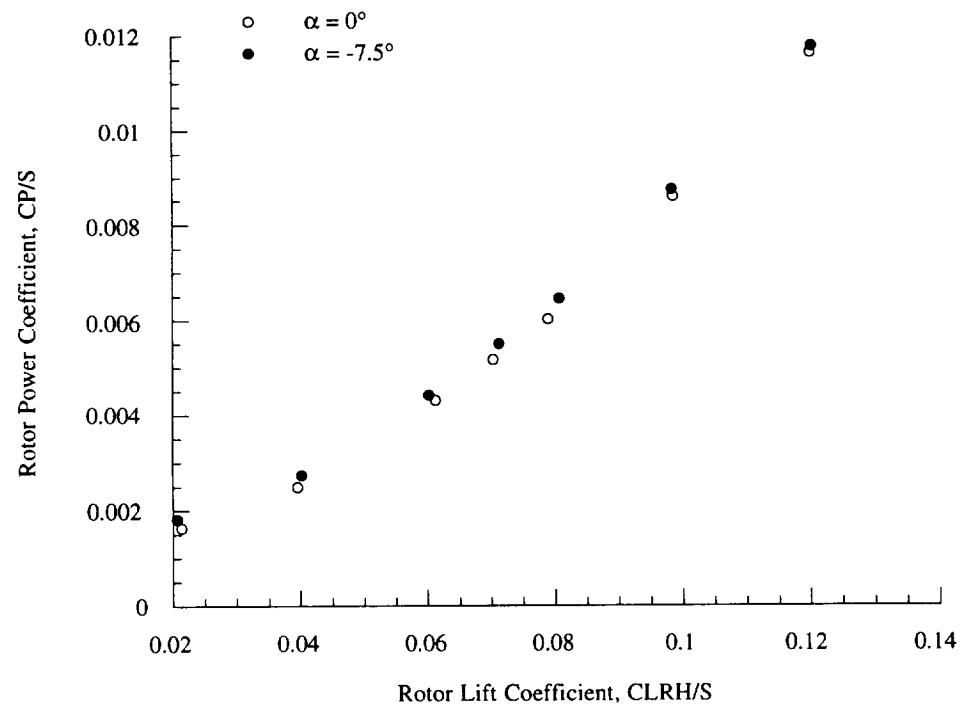


Figure 5(b). Rotor power coefficient as a function of rotor lift coefficient, 10 knots.

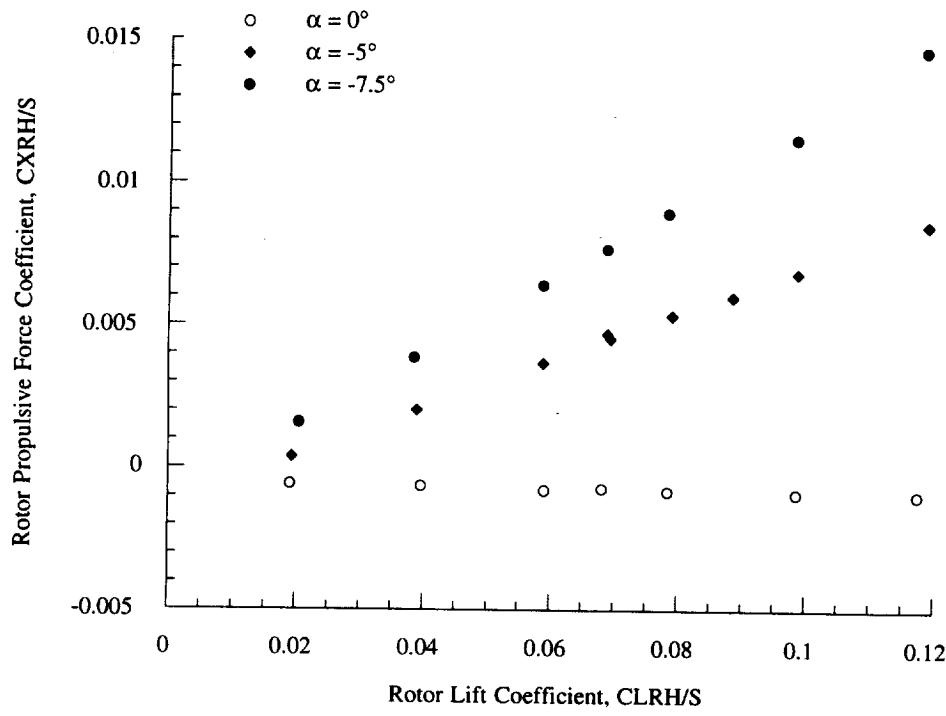


Figure 6(a). Rotor propulsive force coefficient as a function of rotor lift coefficient, 20 knots.

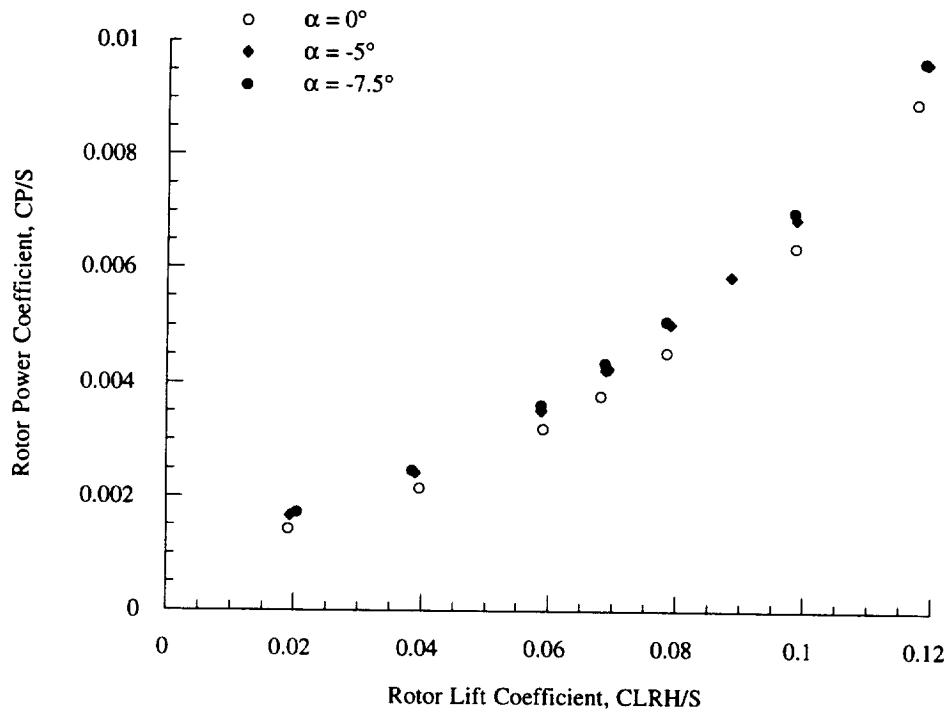


Figure 6(b). Rotor power coefficient as a function of rotor lift coefficient, 20 knots.

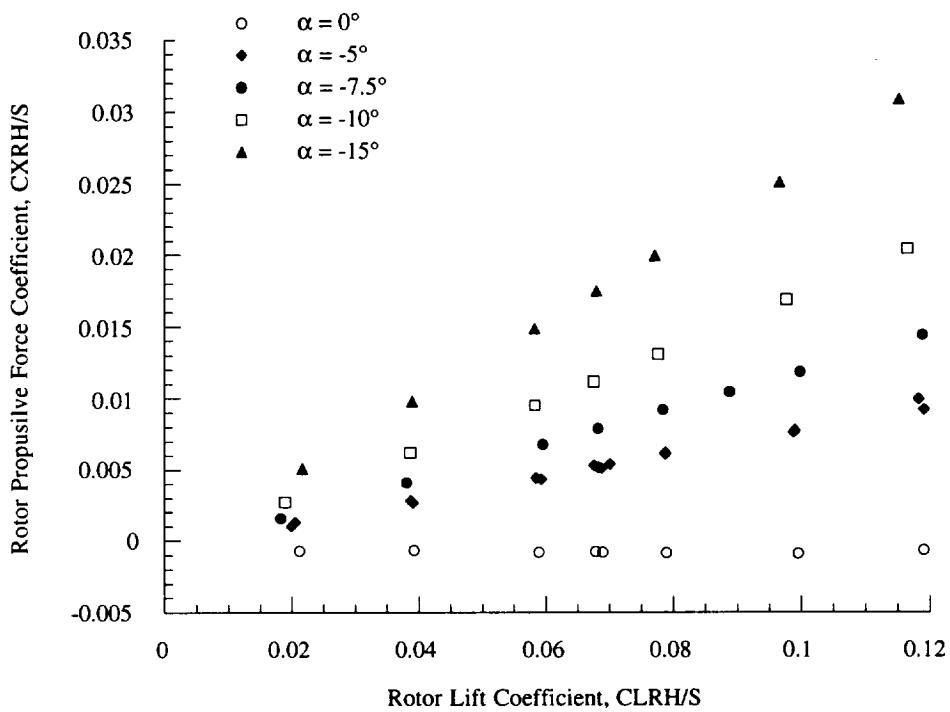


Figure 7(a). Rotor propulsive force coefficient as a function of rotor lift coefficient, 30 knots.

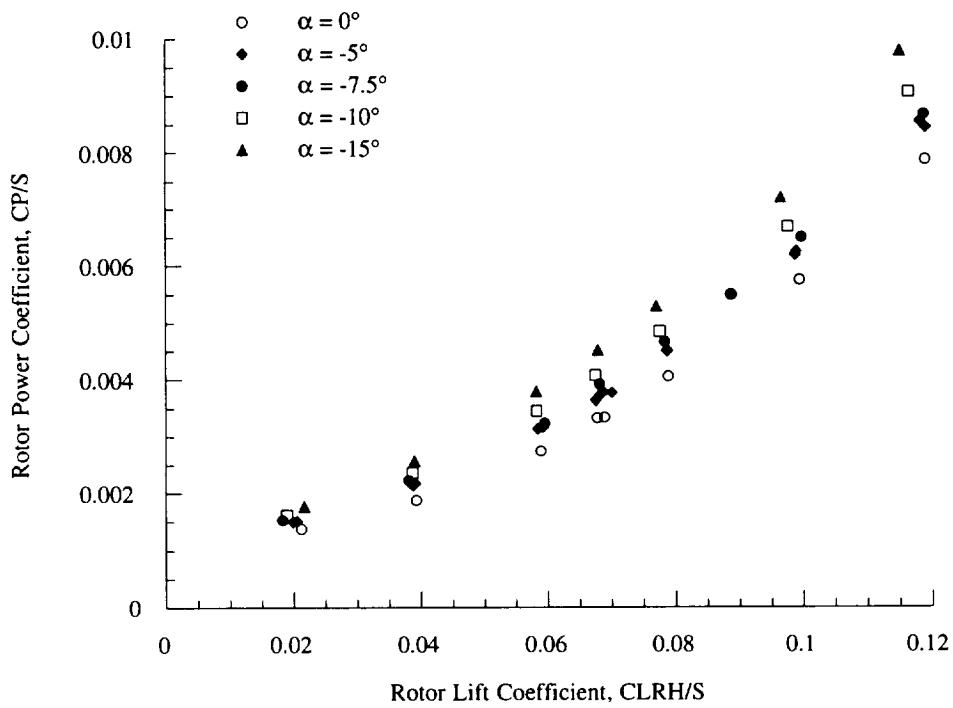


Figure 7(b). Rotor power coefficient as a function of rotor lift coefficient, 30 knots.

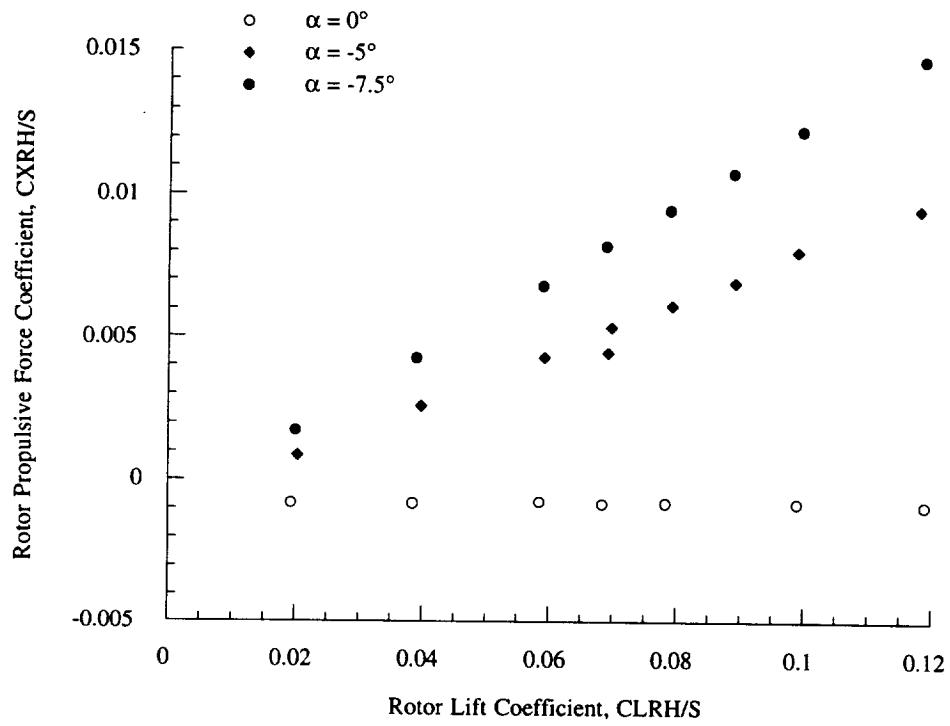


Figure 8(a). Rotor propulsive force coefficient as a function of rotor lift coefficient, 45 knots.

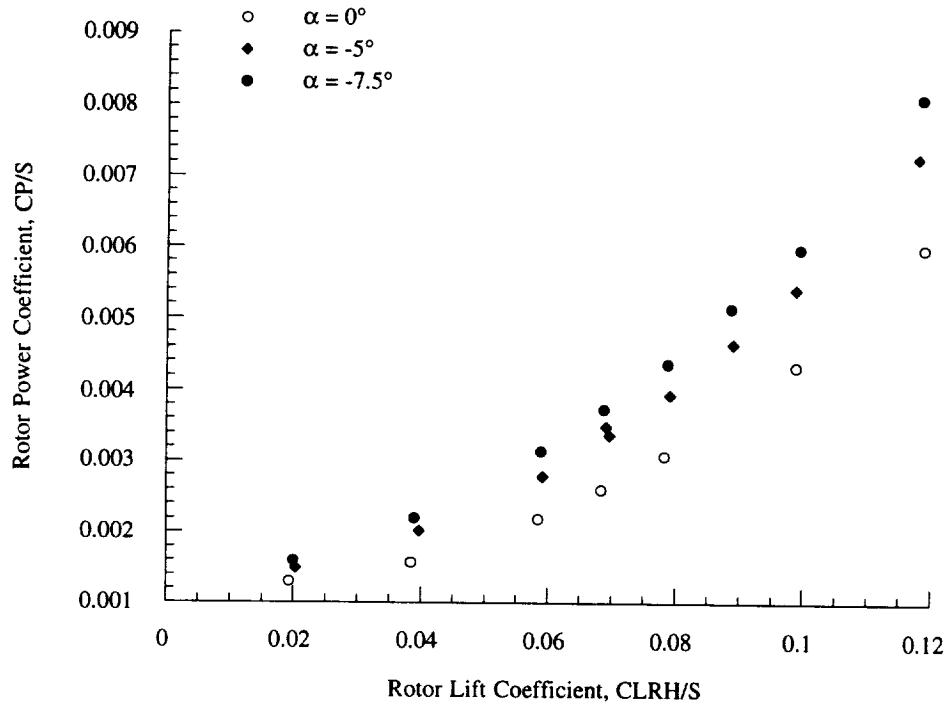


Figure 8(b). Rotor power coefficient as a function of rotor lift coefficient, 45 knots.

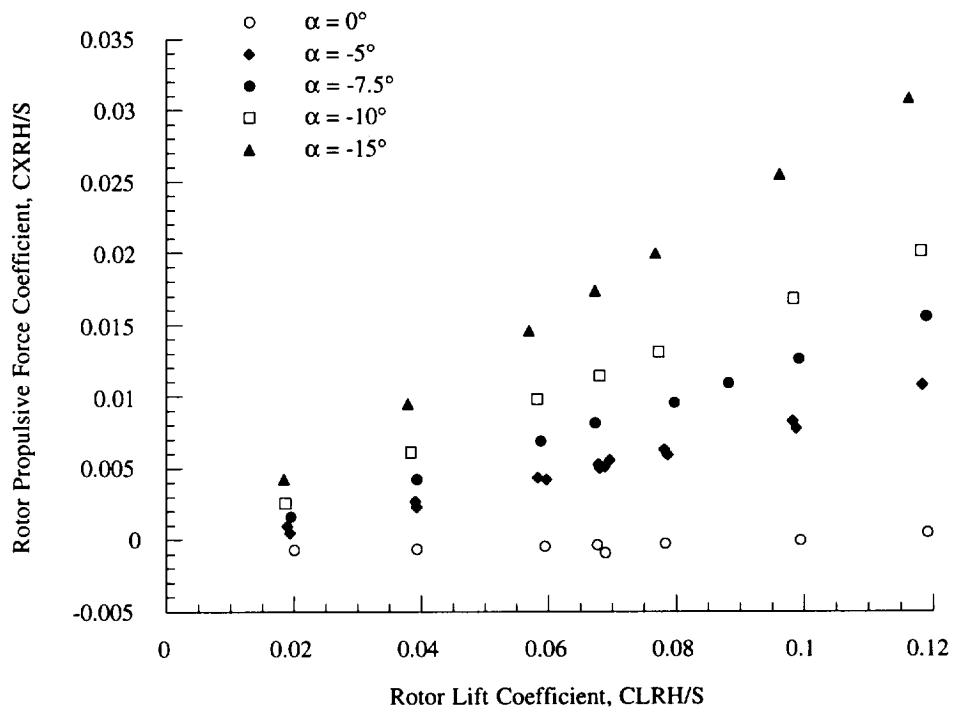


Figure 9(a). Rotor propulsive force coefficient as a function of rotor lift coefficient, 60 knots.

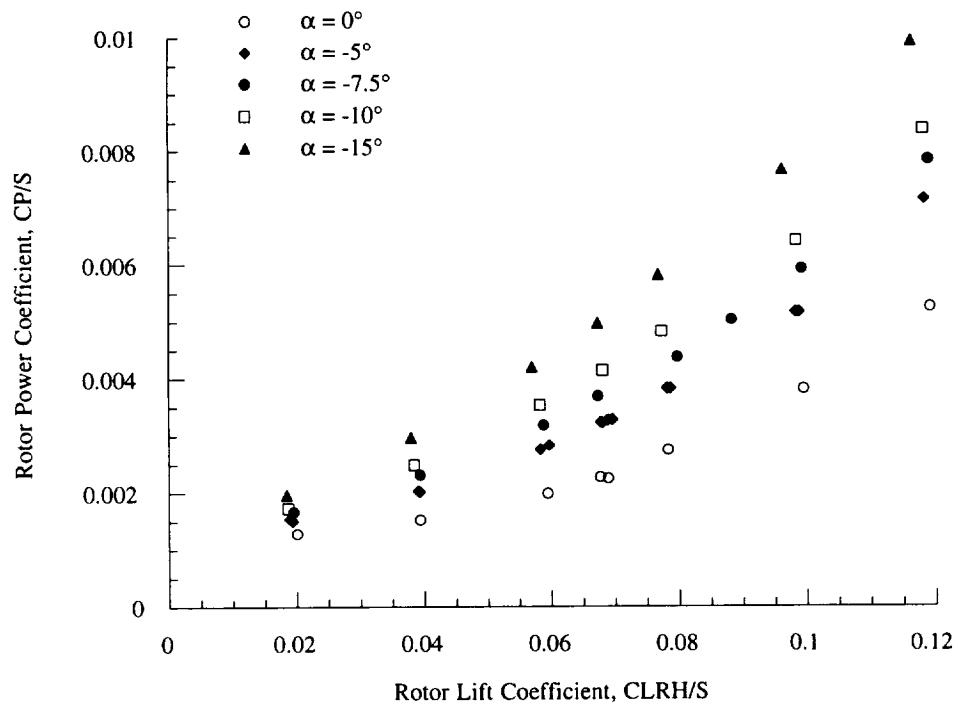


Figure 9(b). Rotor power coefficient as a function of rotor lift coefficient, 60 knots.

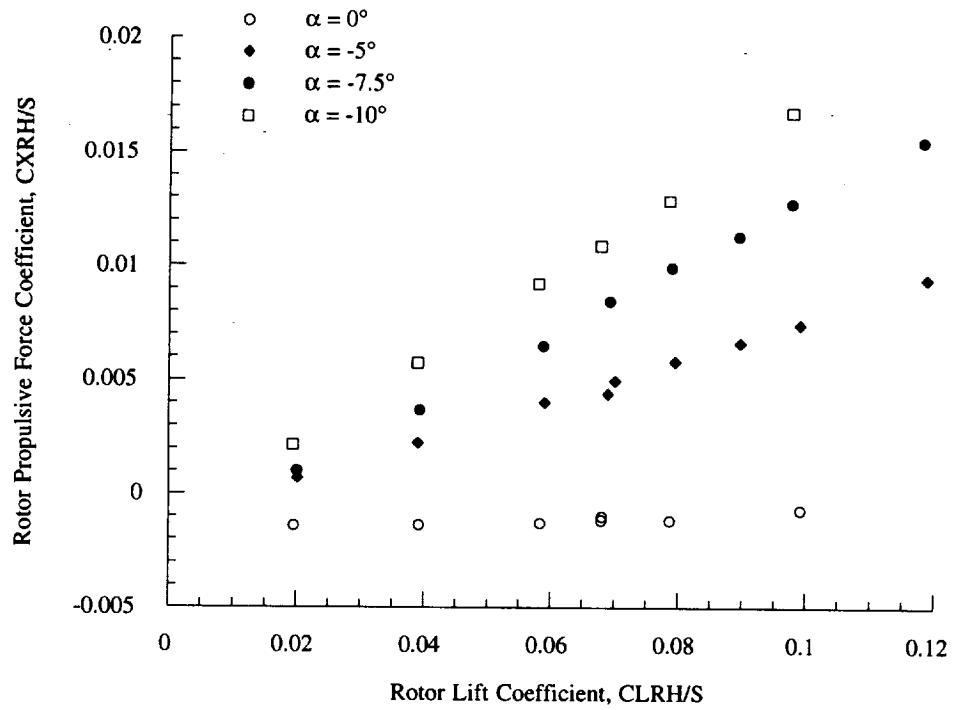


Figure 10(a). Rotor propulsive force coefficient as a function of rotor lift coefficient, 75 knots.

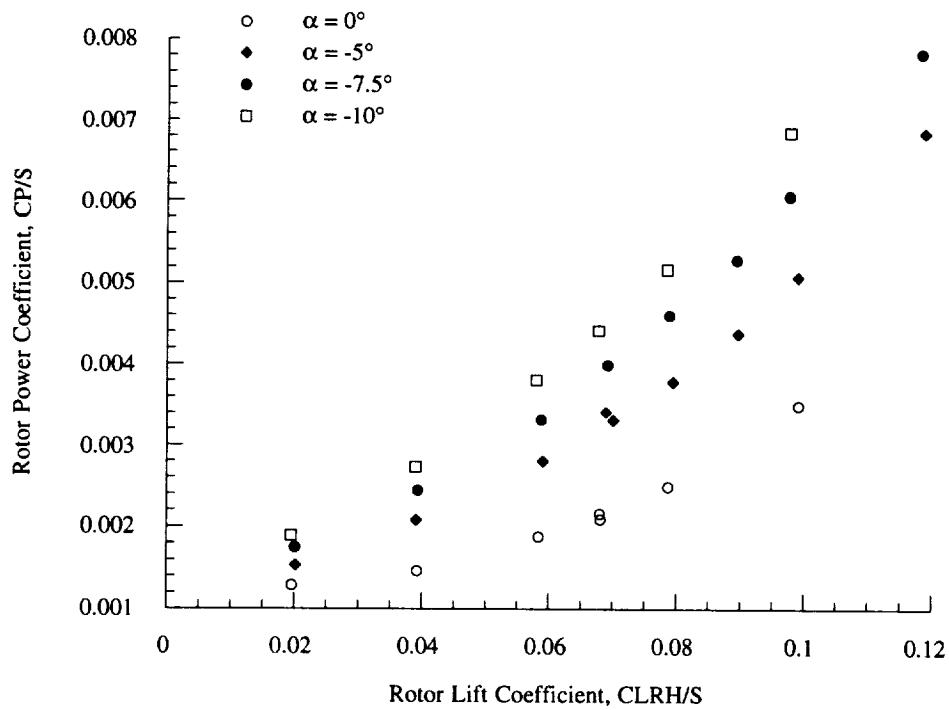


Figure 10(b). Rotor power coefficient as a function of rotor lift coefficient, 75 knots.

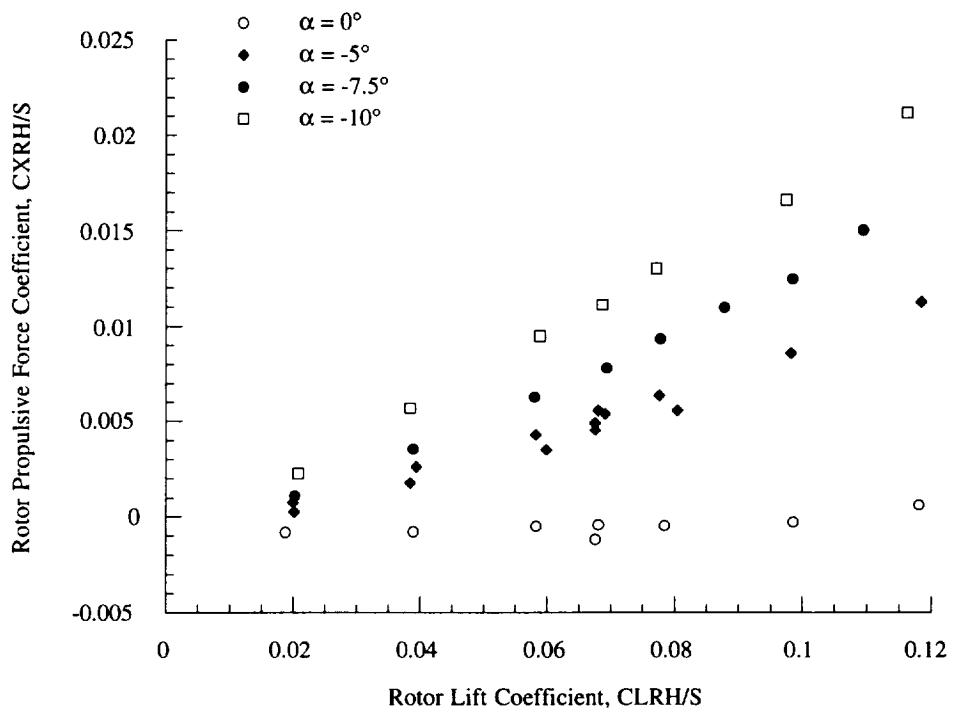


Figure 11(a). Rotor propulsive force coefficient as a function of rotor lift coefficient, 90 knots.

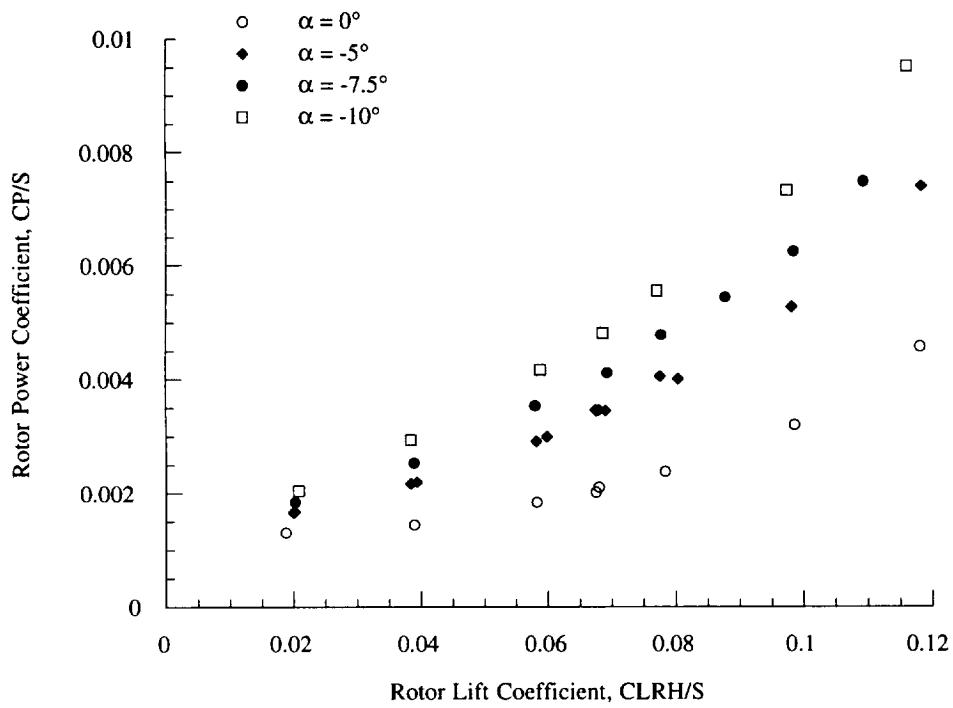


Figure 11(b). Rotor power coefficient as a function of rotor lift coefficient, 90 knots.

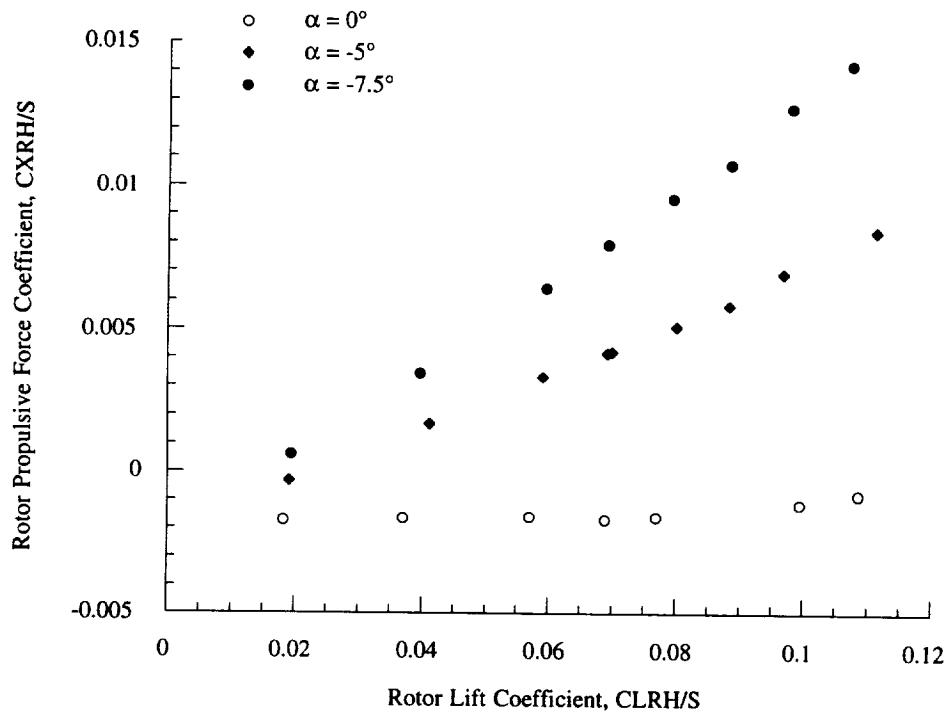


Figure 12(a). Rotor propulsive force coefficient as a function of rotor lift coefficient, 105 knots.

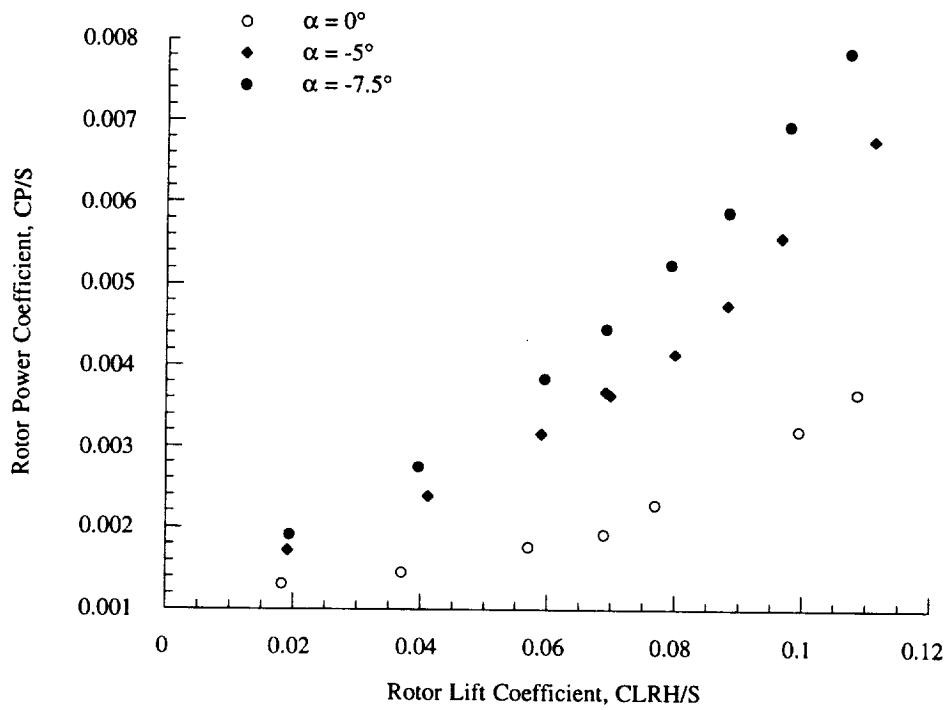


Figure 12(b). Rotor power coefficient as a function of rotor lift coefficient, 105 knots.

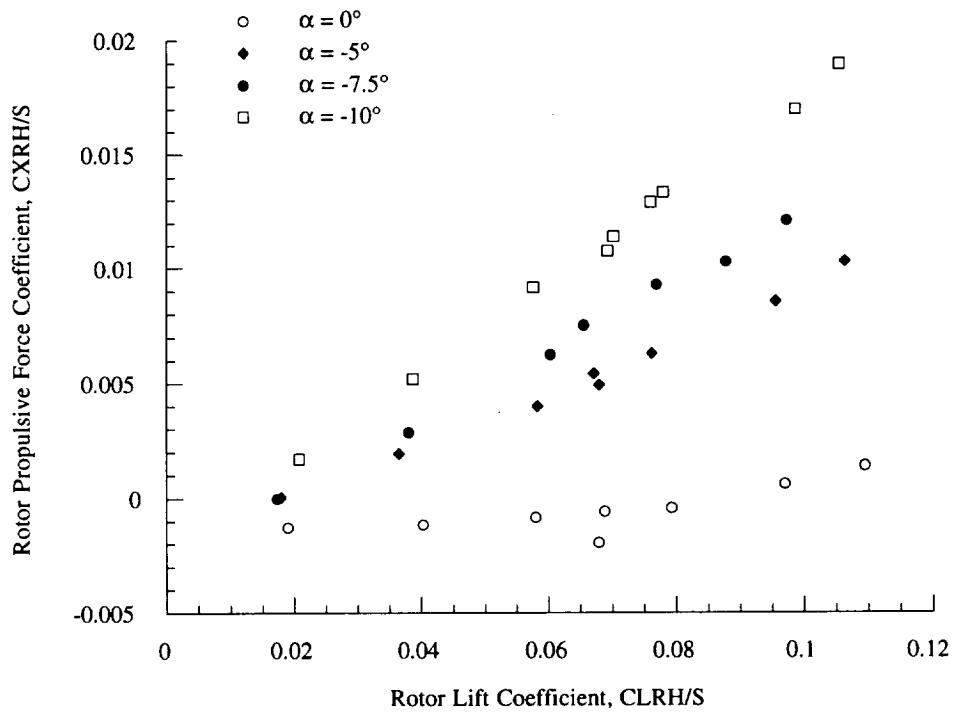


Figure 13(a). Rotor propulsive force coefficient as a function of rotor lift coefficient, 120 knots.

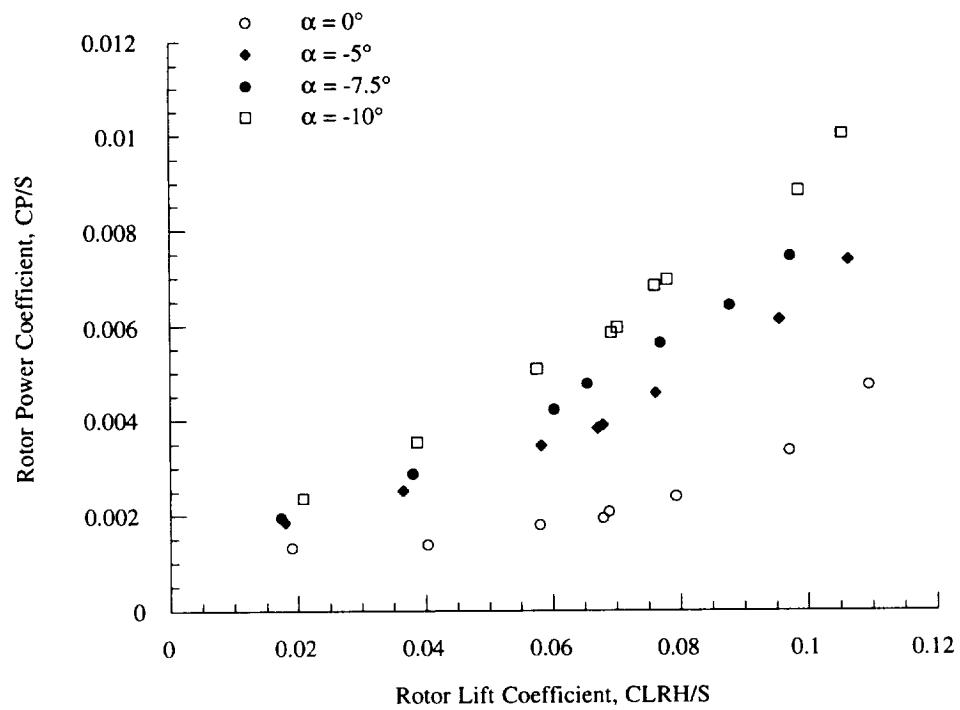


Figure 13(b). Rotor power coefficient as a function of rotor lift coefficient, 120 knots.

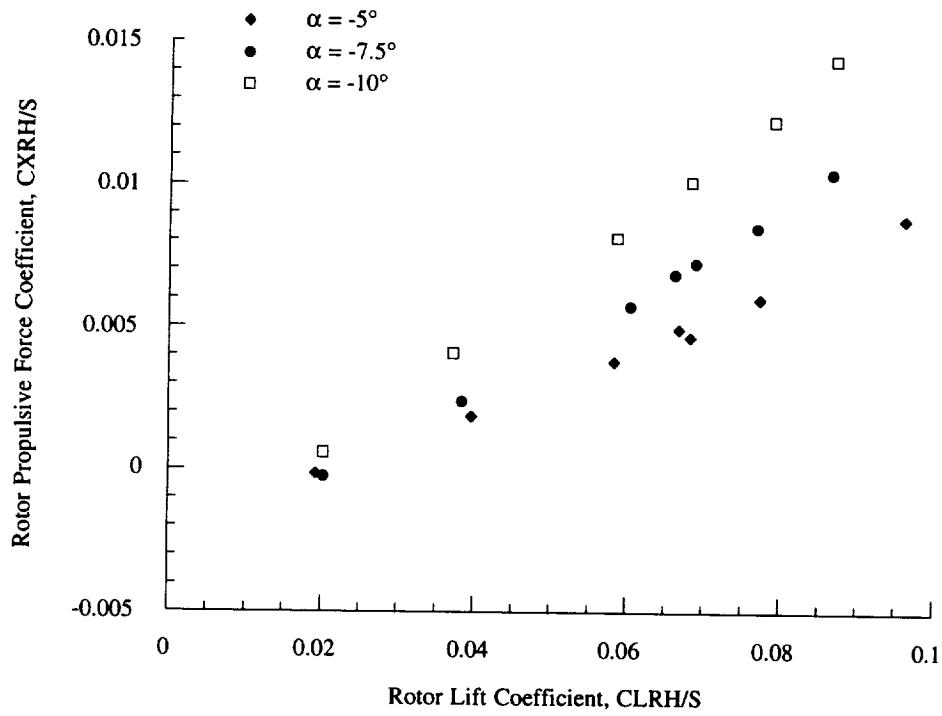


Figure 14(a). Rotor propulsive force coefficient as a function of rotor lift coefficient, 140 knots.

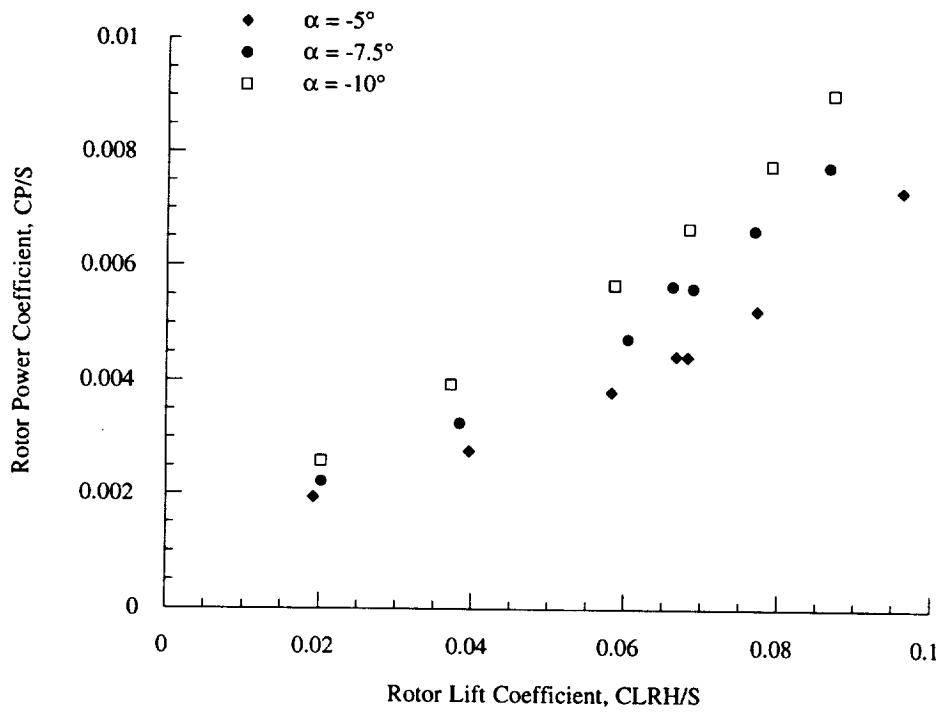


Figure 14(b). Rotor power coefficient as a function of rotor lift coefficient, 140 knots.

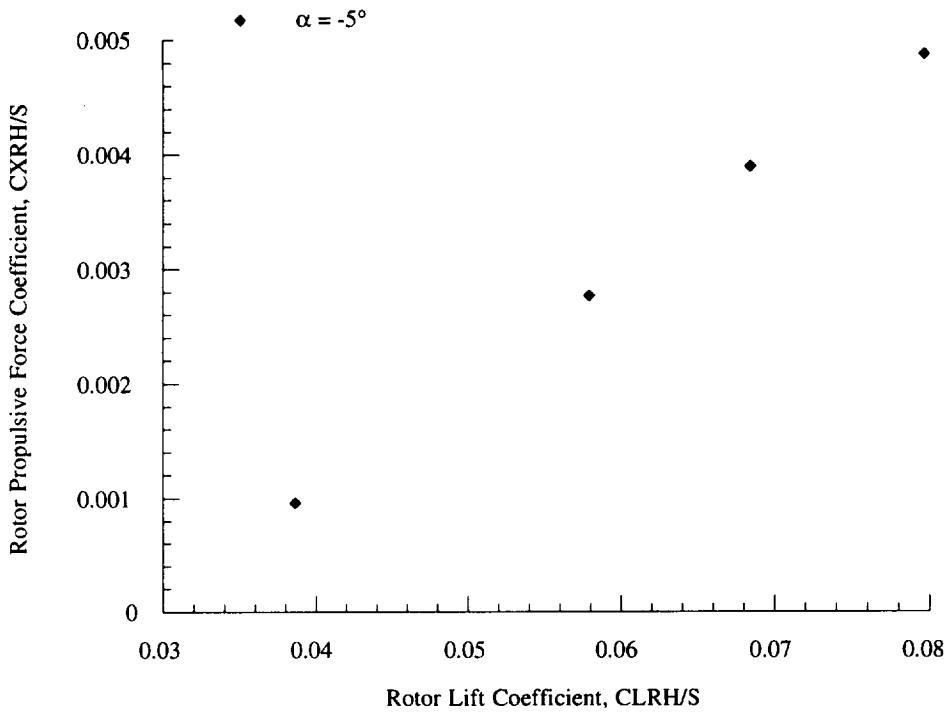


Figure 15(a). Rotor propulsive force coefficient as a function of rotor lift coefficient, 150 knots.

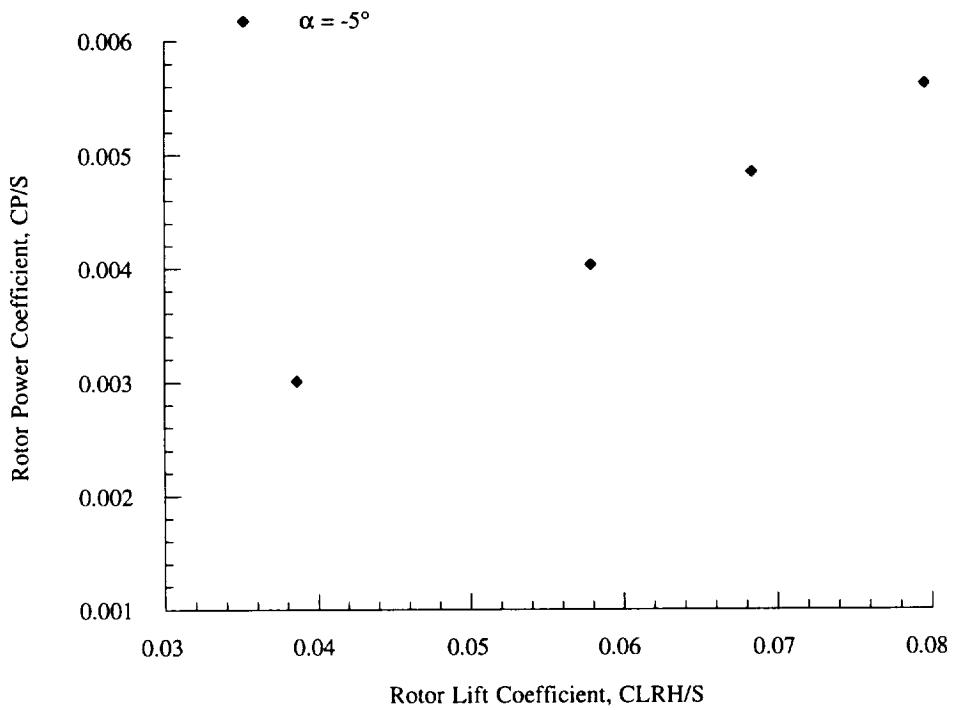


Figure 15(b). Rotor power coefficient as a function of rotor lift coefficient, 150 knots.

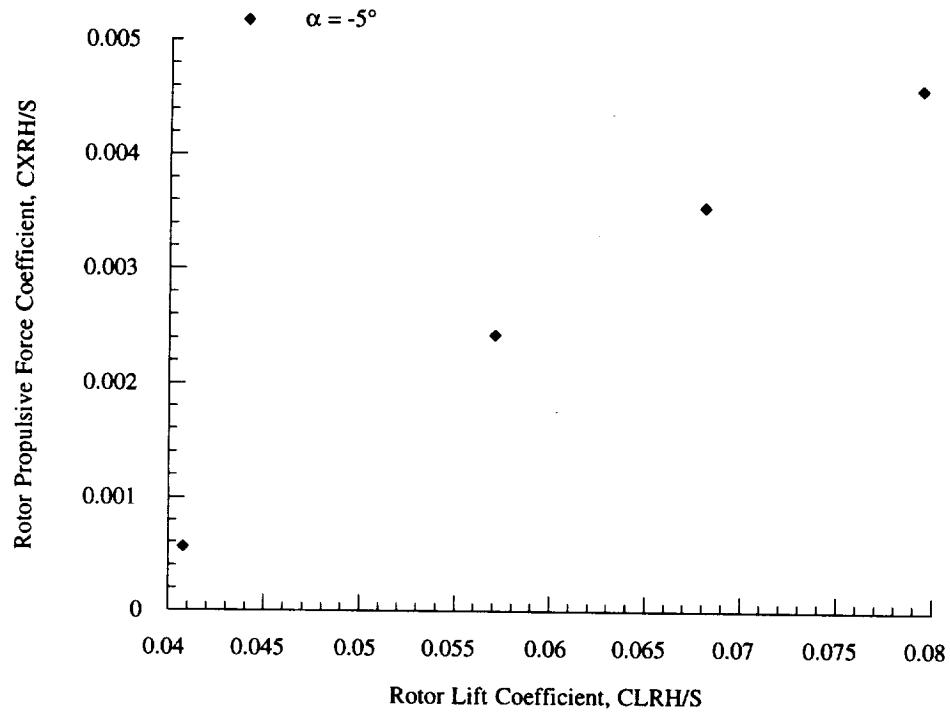


Figure 16(a). Rotor propulsive force coefficient as a function of rotor lift coefficient, 160 knots.

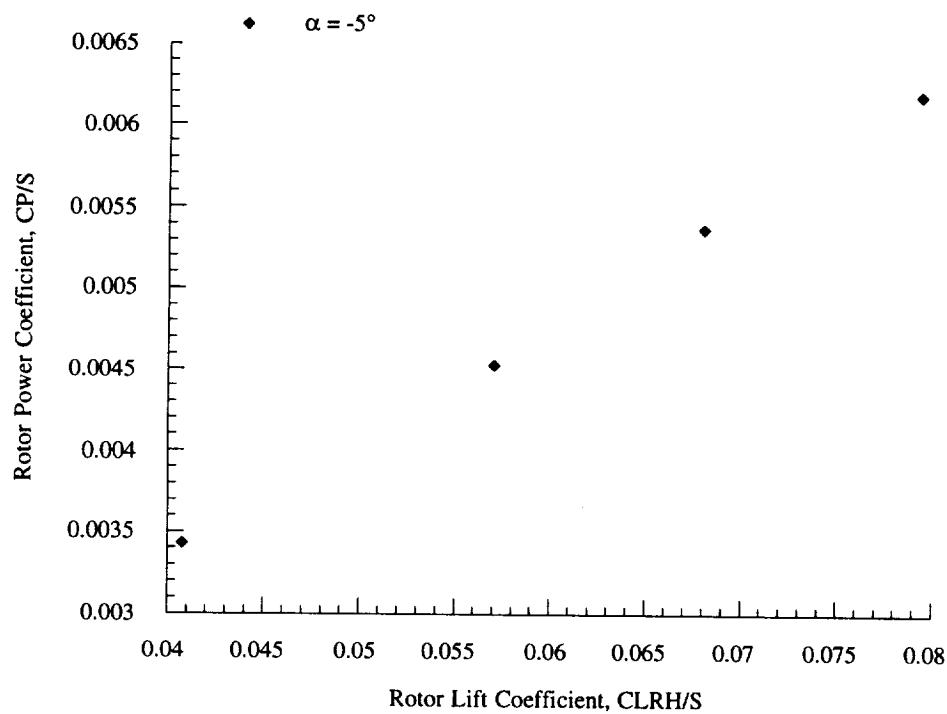


Figure 16(b). Rotor power coefficient as a function of rotor lift coefficient, 160 knots.

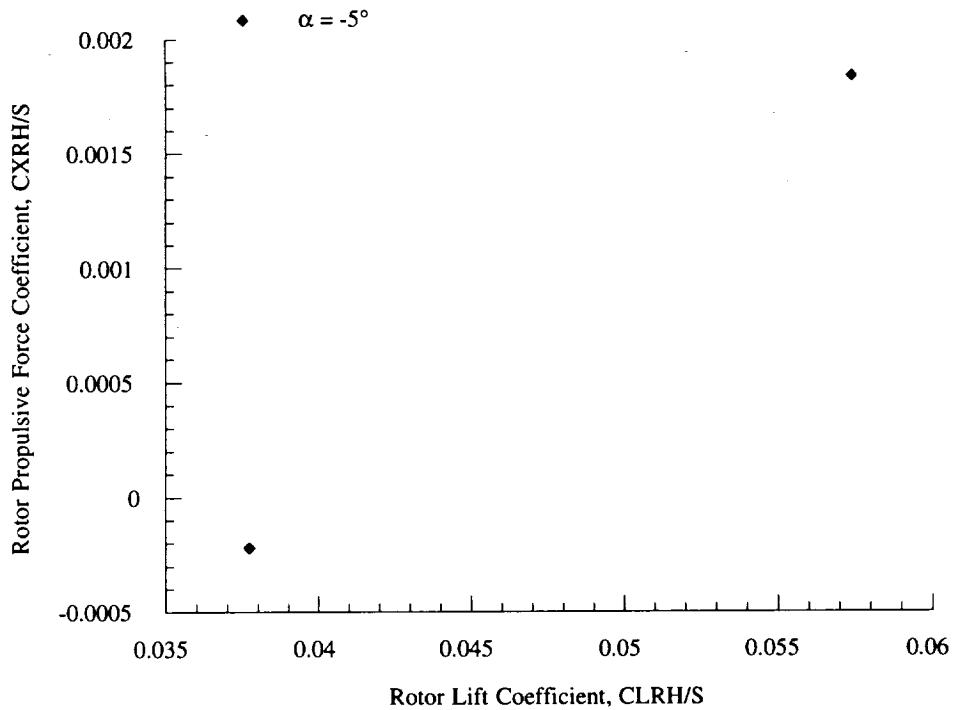


Figure 17(a). Rotor propulsive force coefficient as a function of rotor lift coefficient, 170 knots.

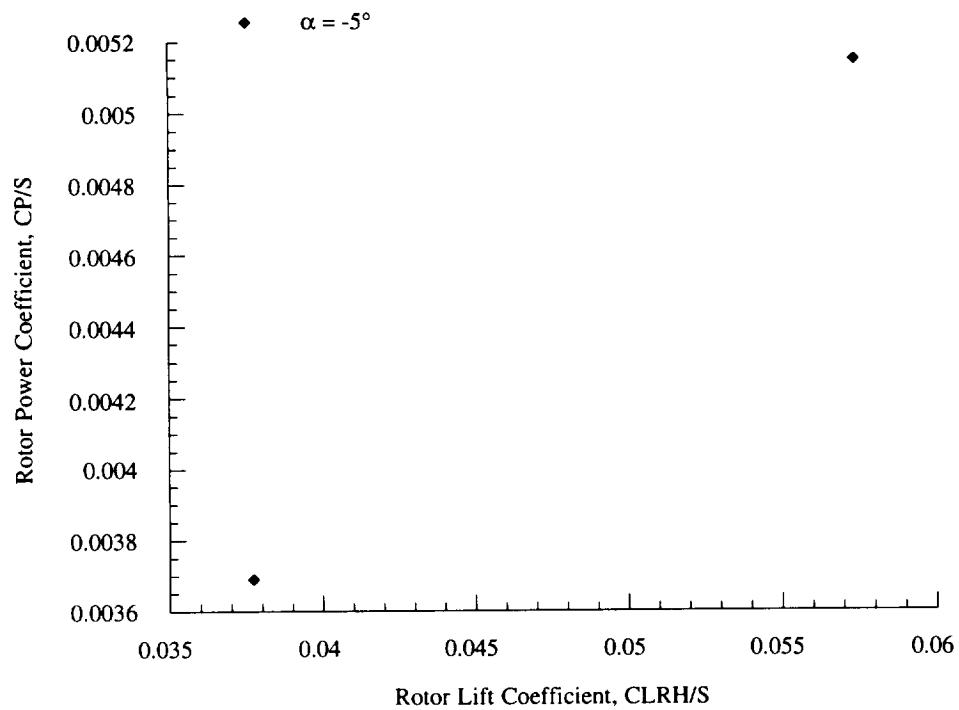


Figure 17(b). Rotor power coefficient as a function of rotor lift coefficient, 170 knots.

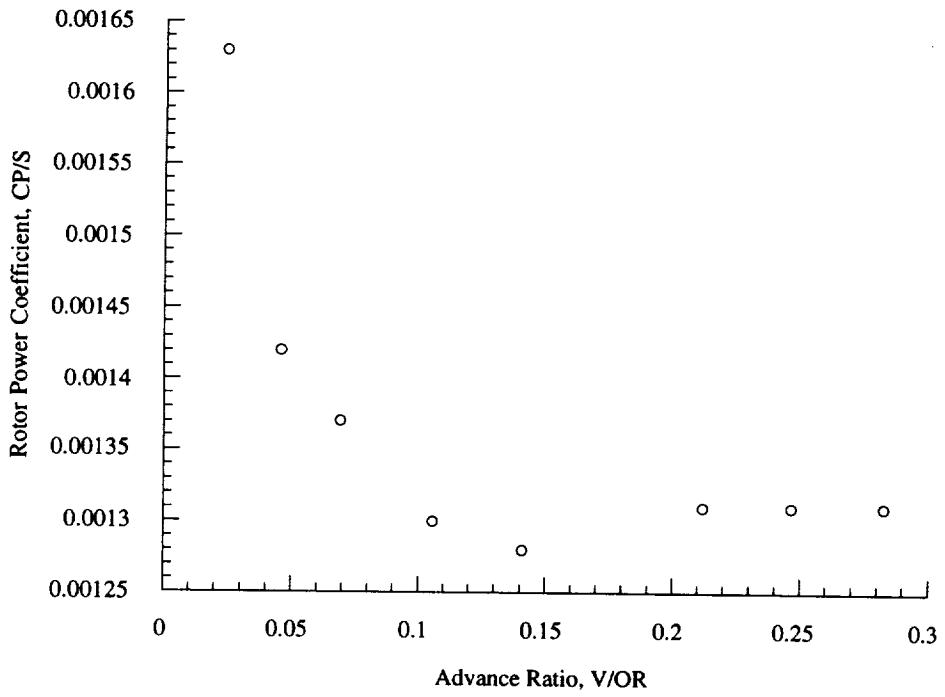


Figure 18(a). Rotor power coefficient as a function of advance ratio, $\alpha = 0$ deg, $C_T/\sigma = 0.02$.

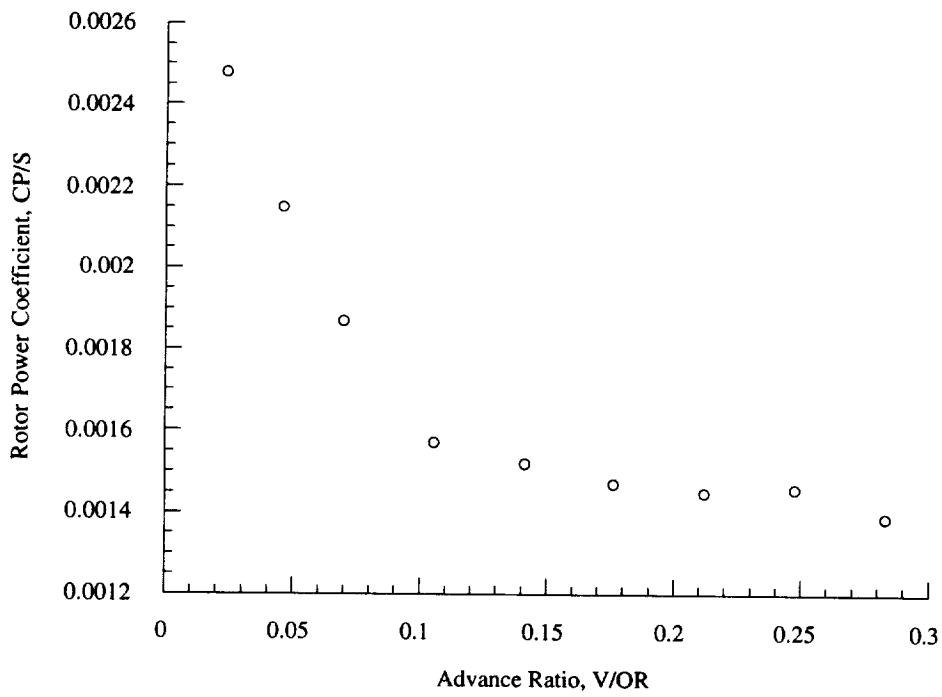


Figure 18(b). Rotor power coefficient as a function of advance ratio, $\alpha = 0$ deg, $C_T/\sigma = 0.04$.

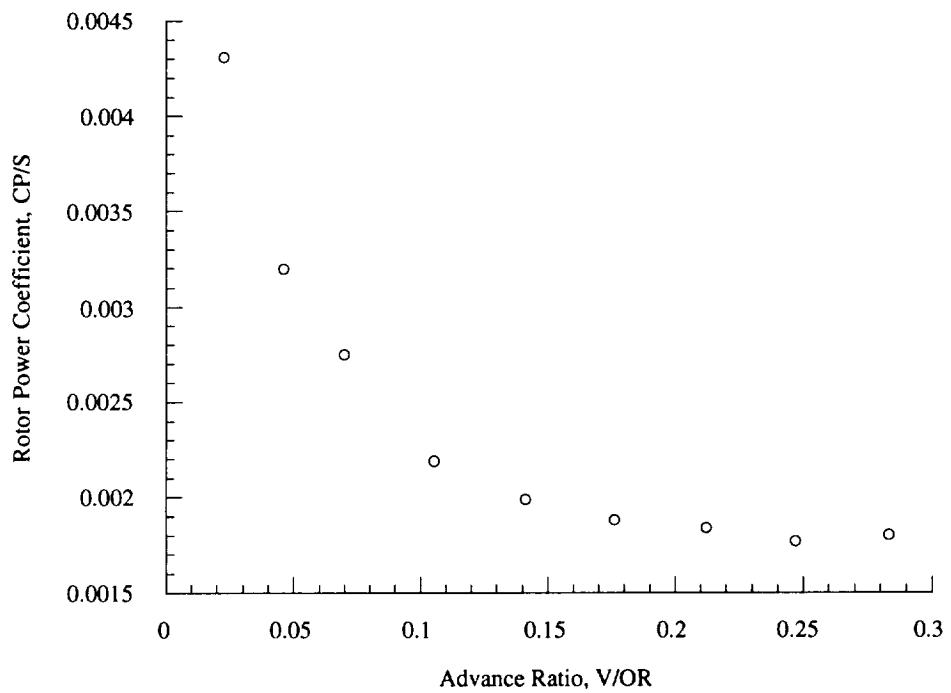


Figure 18(c). Rotor power coefficient as a function of advance ratio, $\alpha = 0$ deg, $C_T/\sigma = 0.06$.

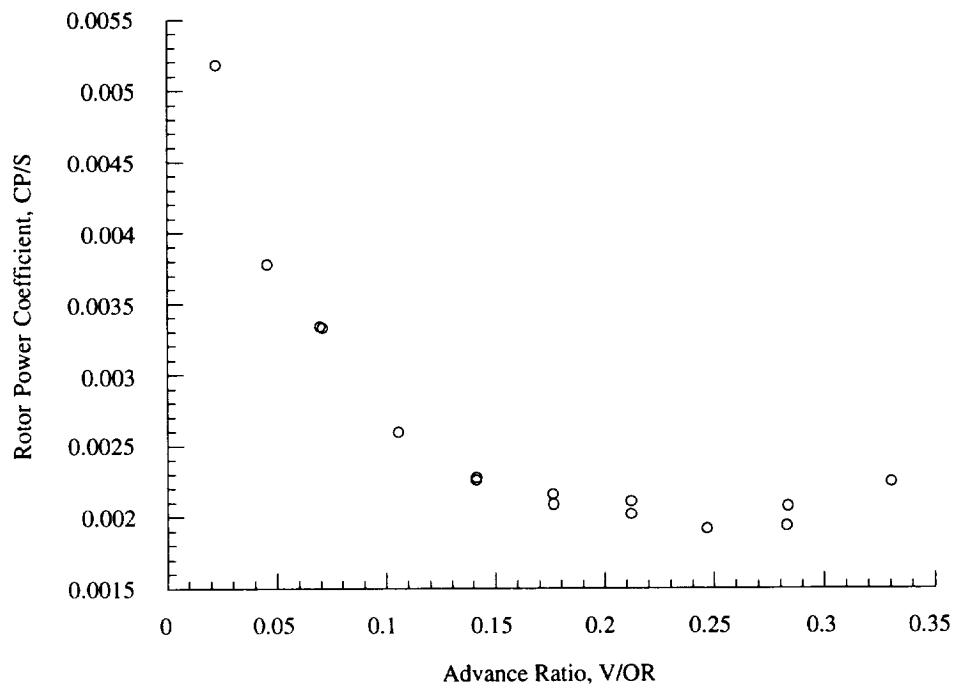


Figure 18(d). Rotor power coefficient as a function of advance ratio, $\alpha = 0$ deg, $C_T/\sigma = 0.07$.

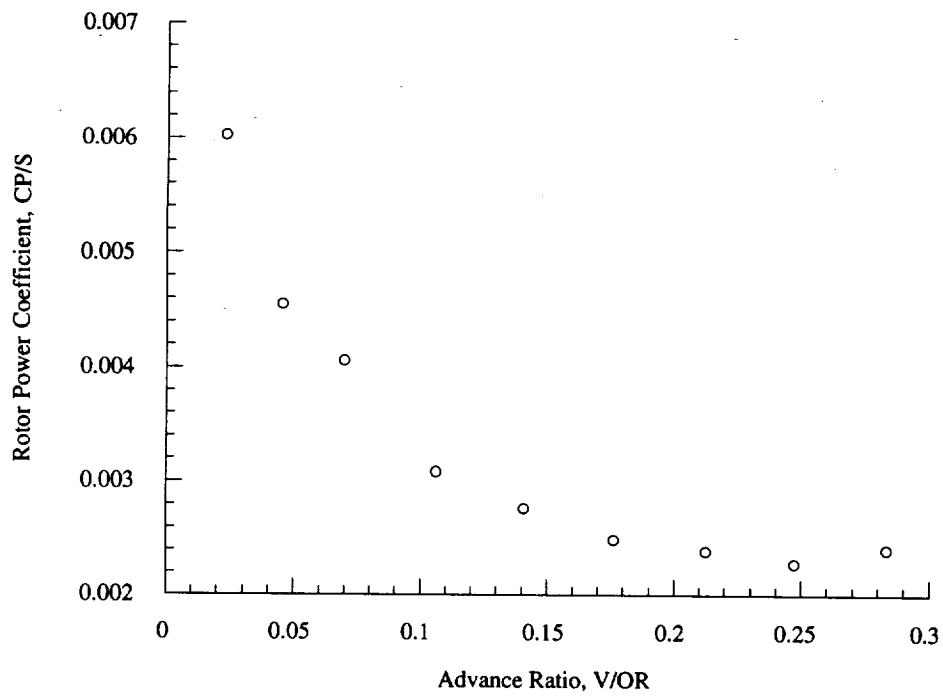


Figure 18(e). Rotor power coefficient as a function of advance ratio, $\alpha = 0$ deg, $C_T/\sigma = 0.08$.

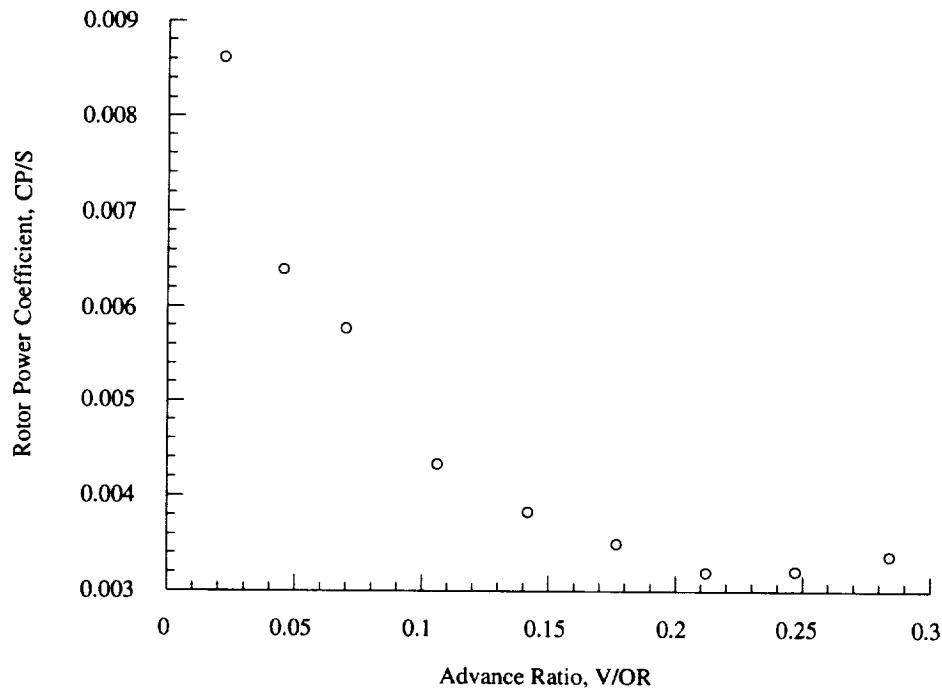


Figure 18(f). Rotor power coefficient as a function of advance ratio, $\alpha = 0$ deg, $C_T/\sigma = 0.10$.

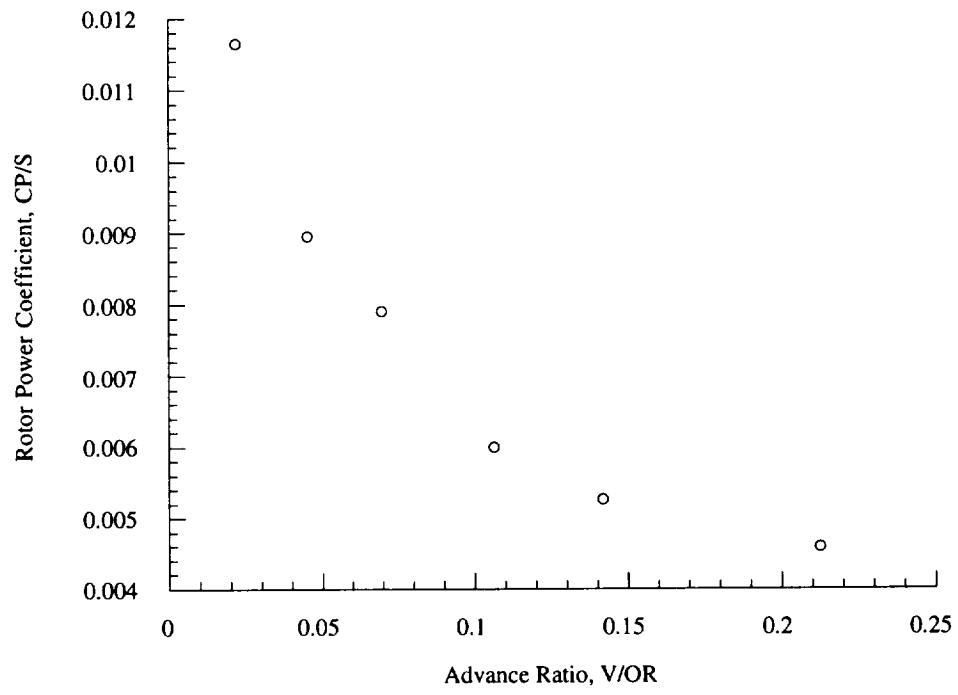


Figure 18(g). Rotor power coefficient as a function of advance ratio, $\alpha = 0$ deg, $C_T/\sigma = 0.12$.

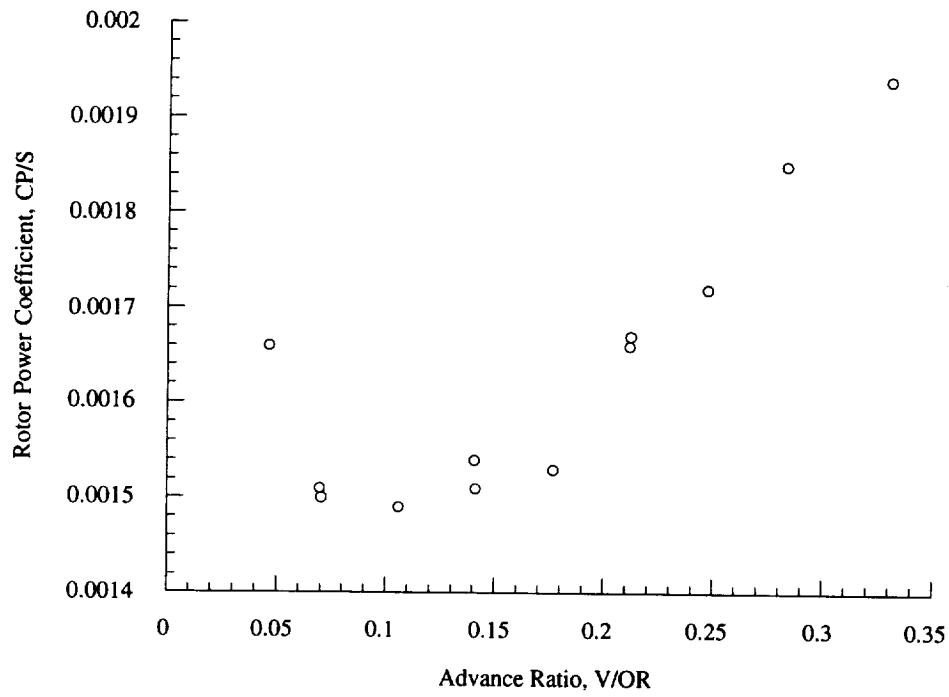


Figure 19(a). Rotor power coefficient as a function of advance ratio, $\alpha = -5 \text{ deg}$, $C_T/\sigma = 0.02$.

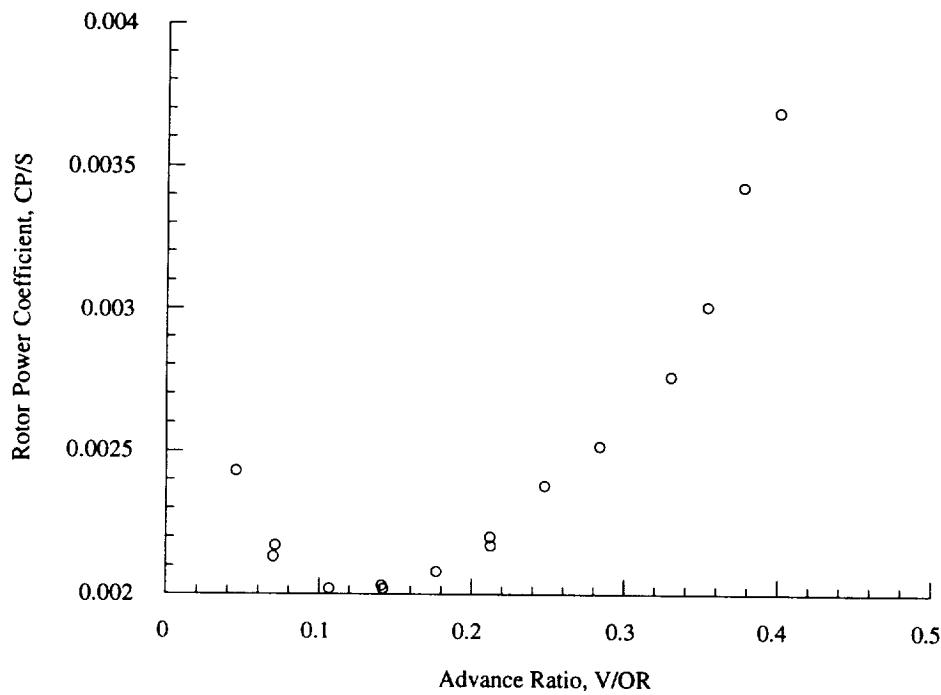


Figure 19(b). Rotor power coefficient as a function of advance ratio, $\alpha = -5 \text{ deg}$, $C_T/\sigma = 0.04$.

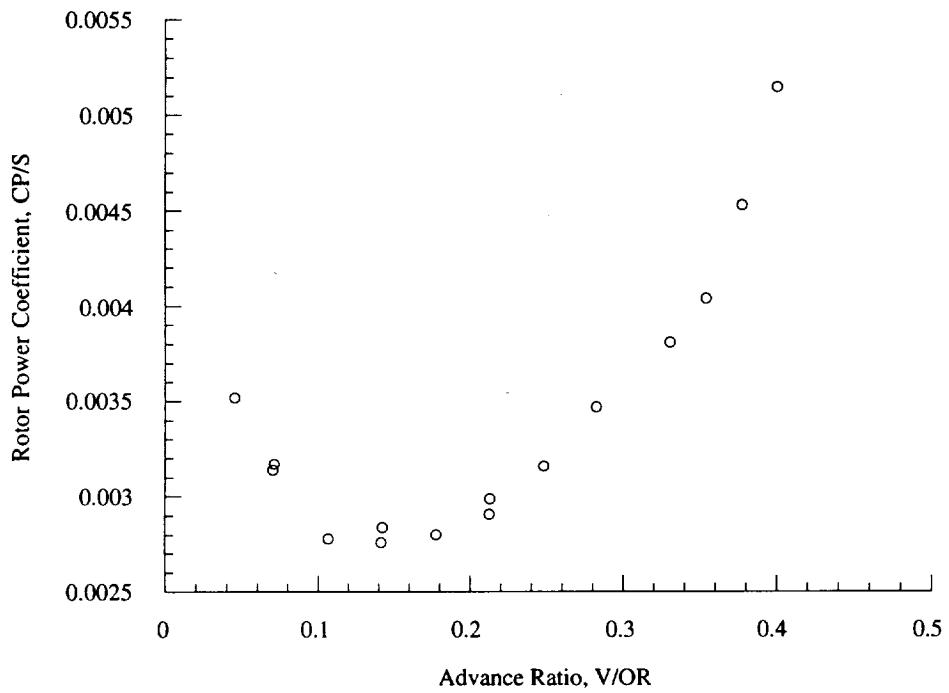


Figure 19(c). Rotor power coefficient as a function of advance ratio, $\alpha = -5 \text{ deg}$, $C_T/\sigma = 0.06$.

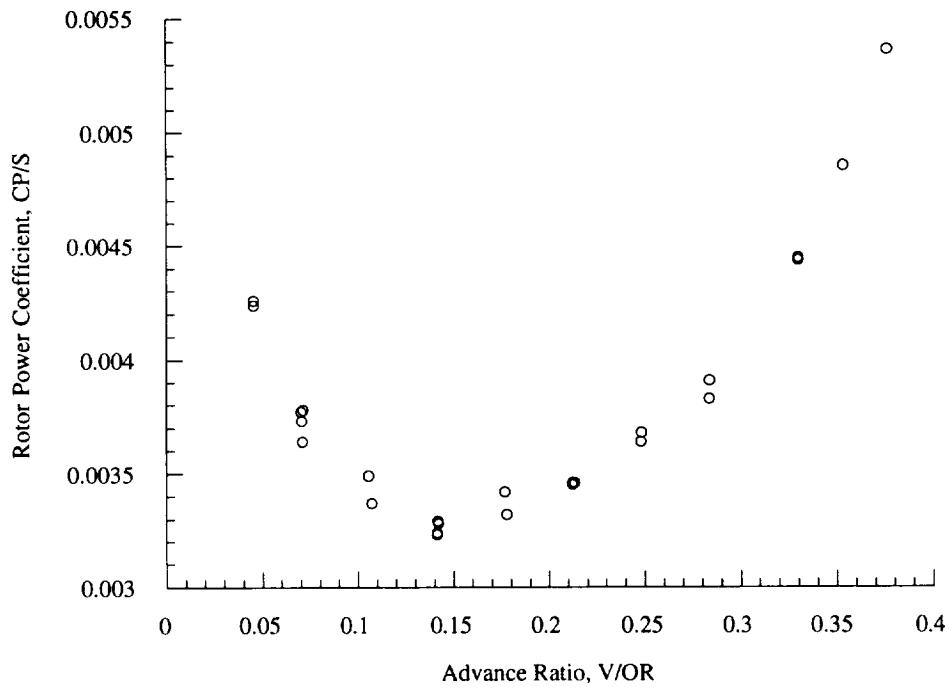


Figure 19(d). Rotor power coefficient as a function of advance ratio, $\alpha = -5 \text{ deg}$, $C_T/\sigma = 0.07$.

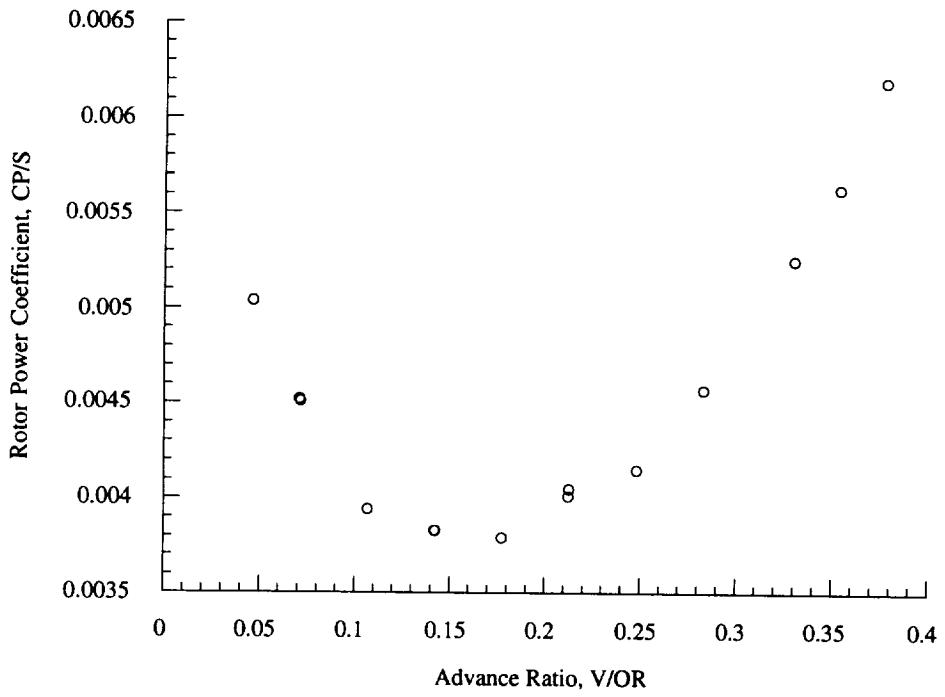


Figure 19(e). Rotor power coefficient as a function of advance ratio, $\alpha = -5 \text{ deg}$, $C_T/\sigma = 0.08$.

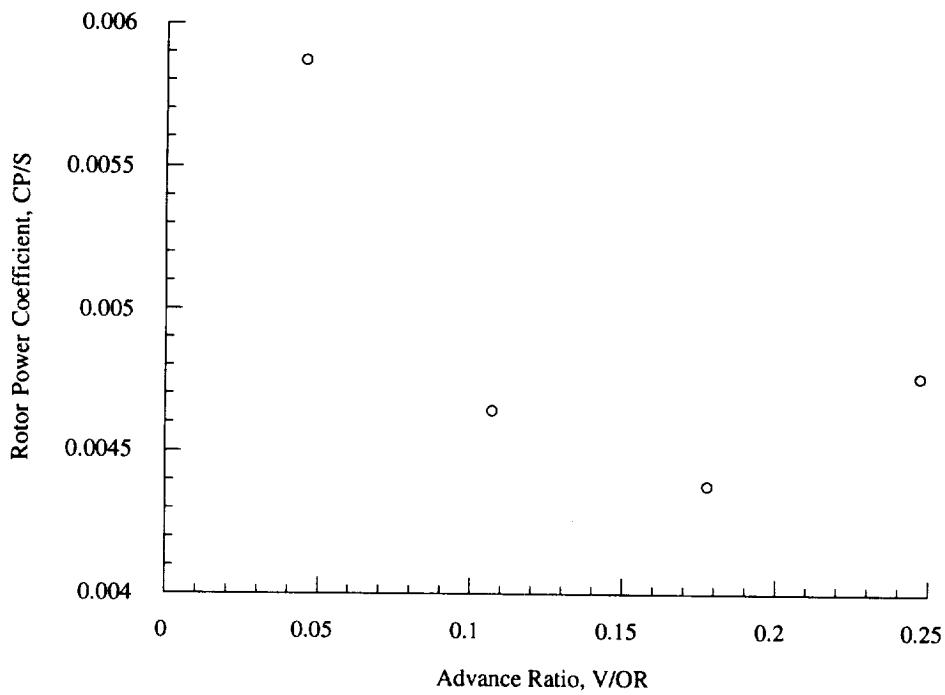


Figure 19(f). Rotor power coefficient as a function of advance ratio, $\alpha = -5 \text{ deg}$, $C_T/\sigma = 0.09$.

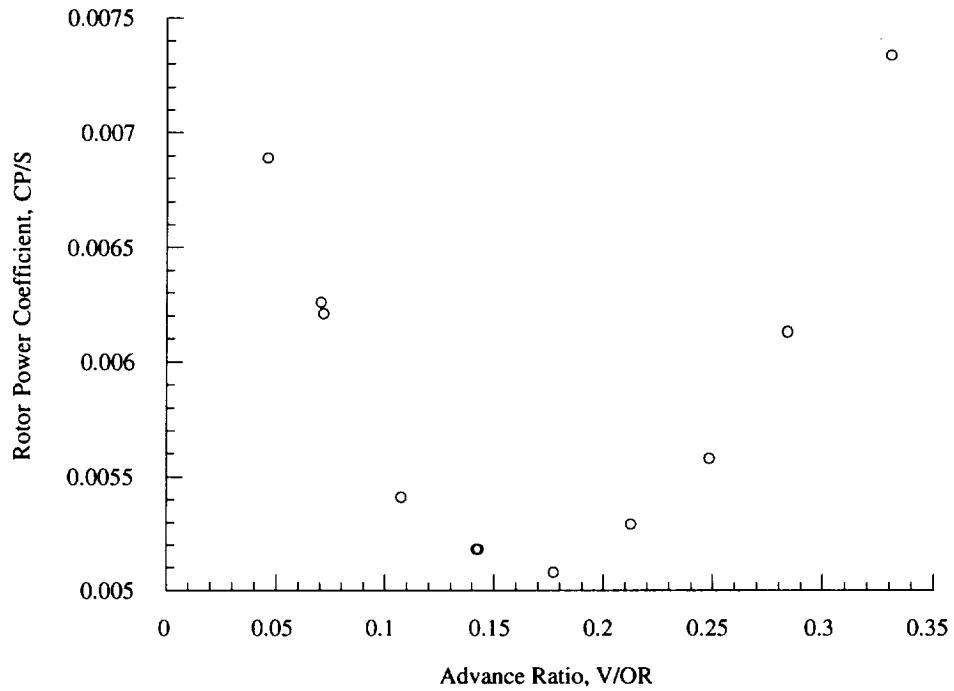


Figure 19(g). Rotor power coefficient as a function of advance ratio, $\alpha = -5 \text{ deg}$, $C_T/\sigma = 0.10$.

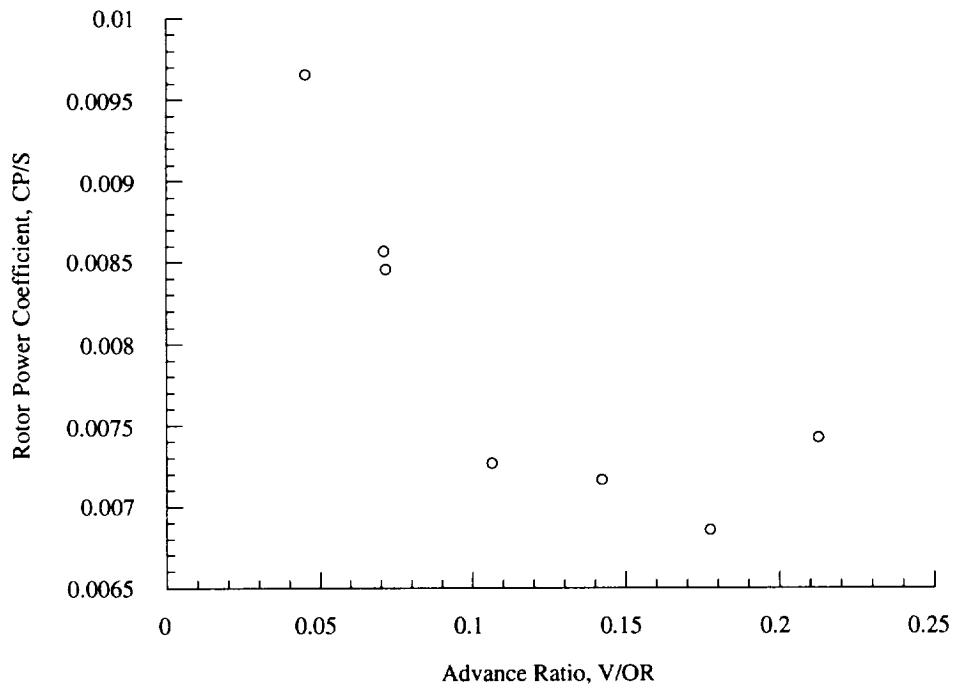


Figure 19(h). Rotor power coefficient as a function of advance ratio, $\alpha = -5 \text{ deg}$, $C_T/\sigma = 0.12$.

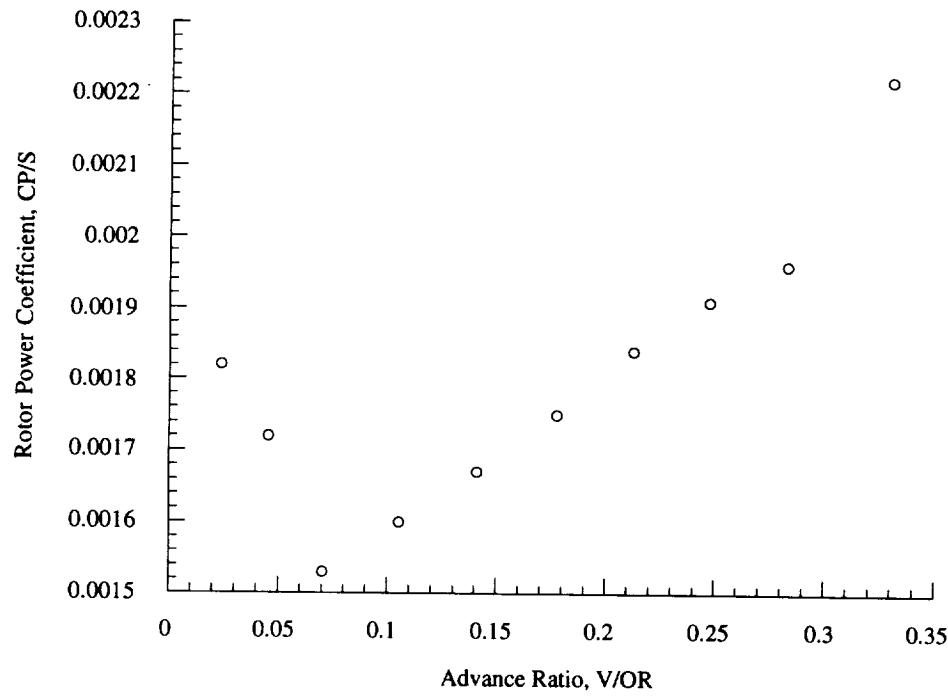


Figure 20(a). Rotor power coefficient as a function of advance ratio, $\alpha = -7.5 \text{ deg}$, $C_T/\sigma = 0.02$.

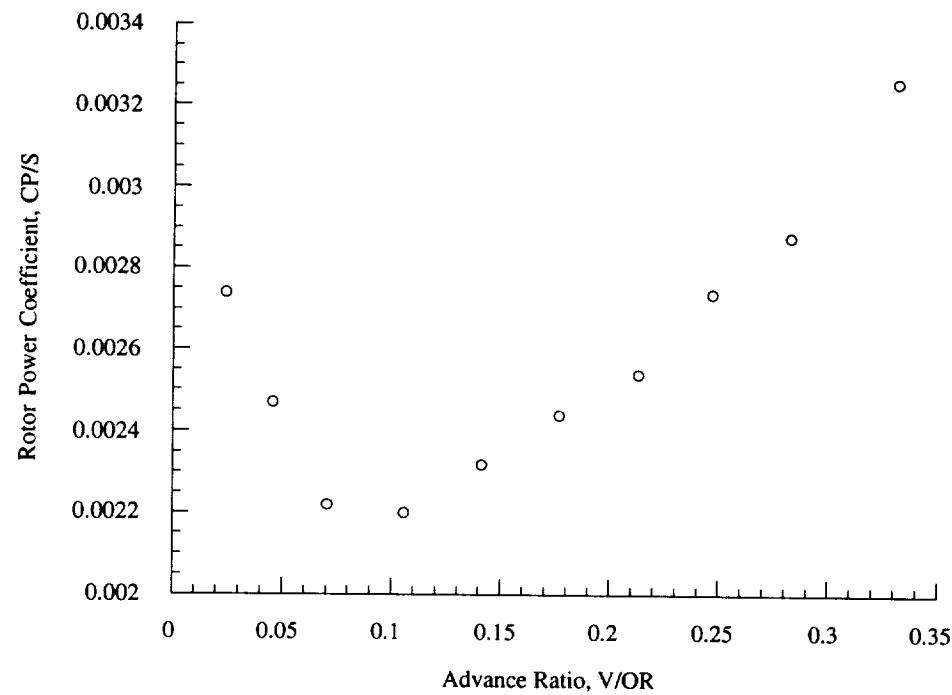


Figure 20(b). Rotor power coefficient as a function of advance ratio, $\alpha = -7.5 \text{ deg}$, $C_T/\sigma = 0.04$.

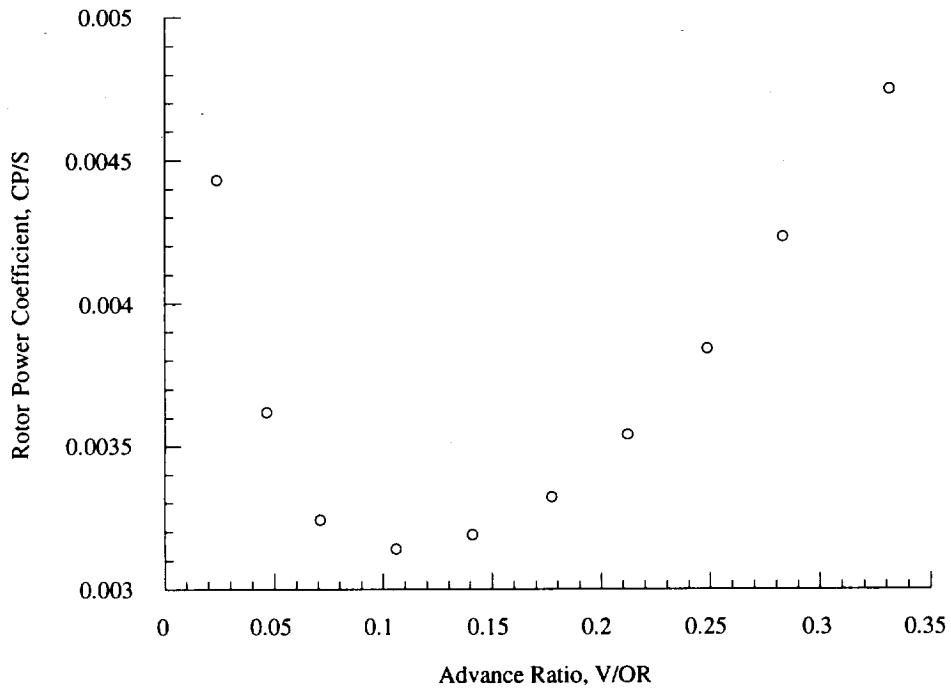


Figure 20(c). Rotor power coefficient as a function of advance ratio, $\alpha = -7.5 \text{ deg}$, $C_T/\sigma = 0.06$.

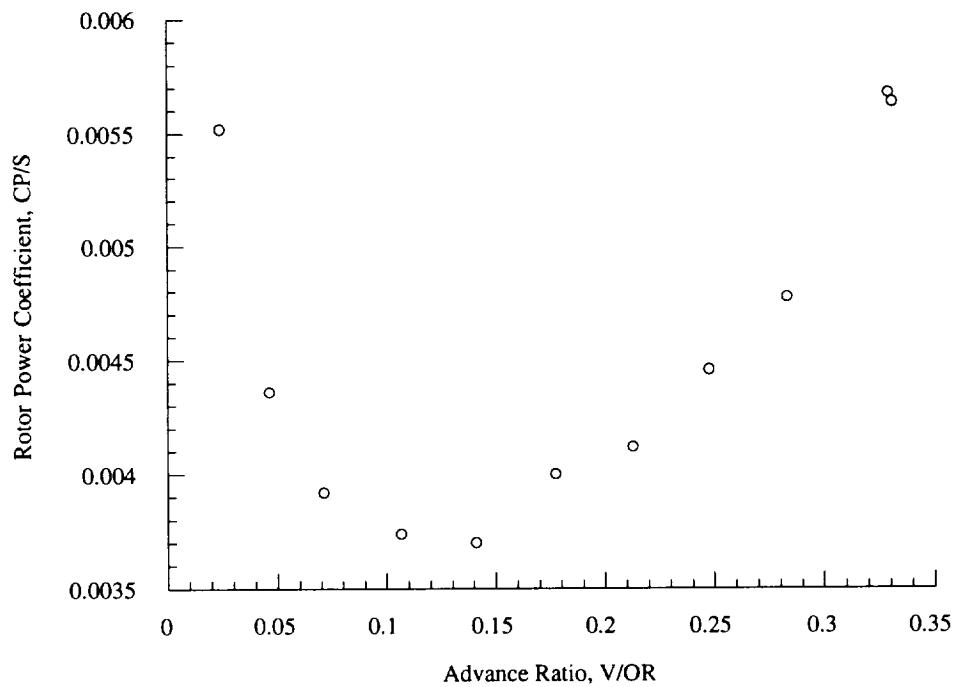


Figure 20(d). Rotor power coefficient as a function of advance ratio, $\alpha = -7.5 \text{ deg}$, $C_T/\sigma = 0.07$.

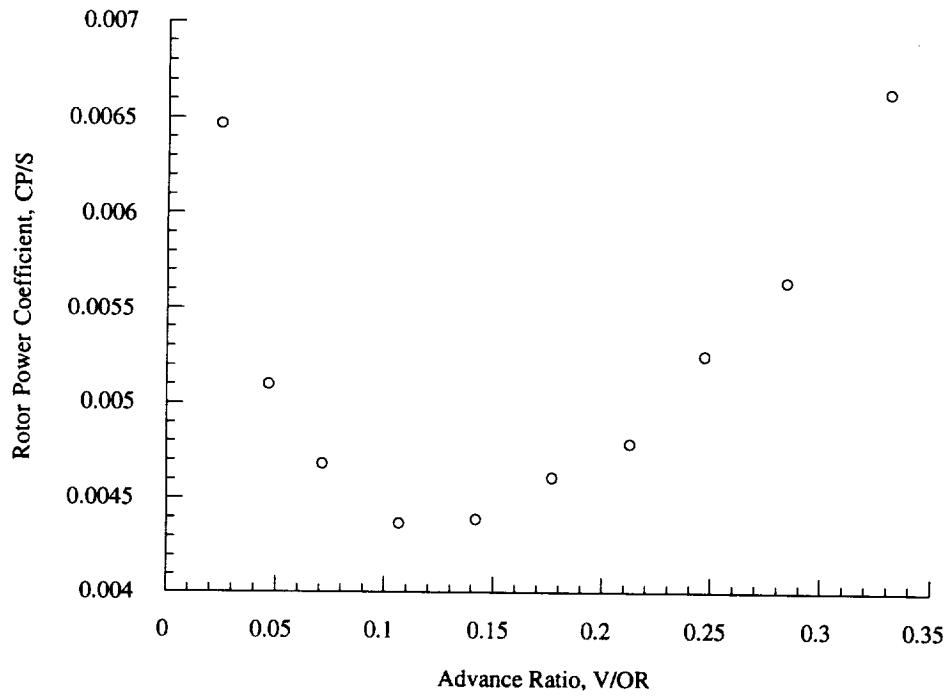


Figure 20(e). Rotor power coefficient as a function of advance ratio, $\alpha = -7.5 \text{ deg}$, $C_T/\sigma = 0.08$.

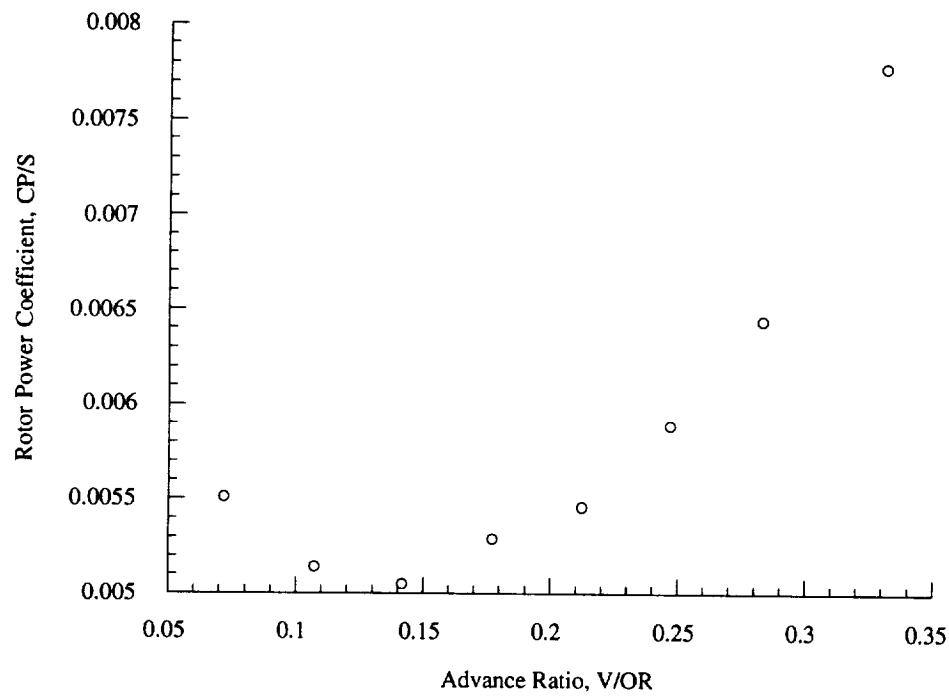


Figure 20(f). Rotor power coefficient as a function of advance ratio, $\alpha = -7.5 \text{ deg}$, $C_T/\sigma = 0.09$.

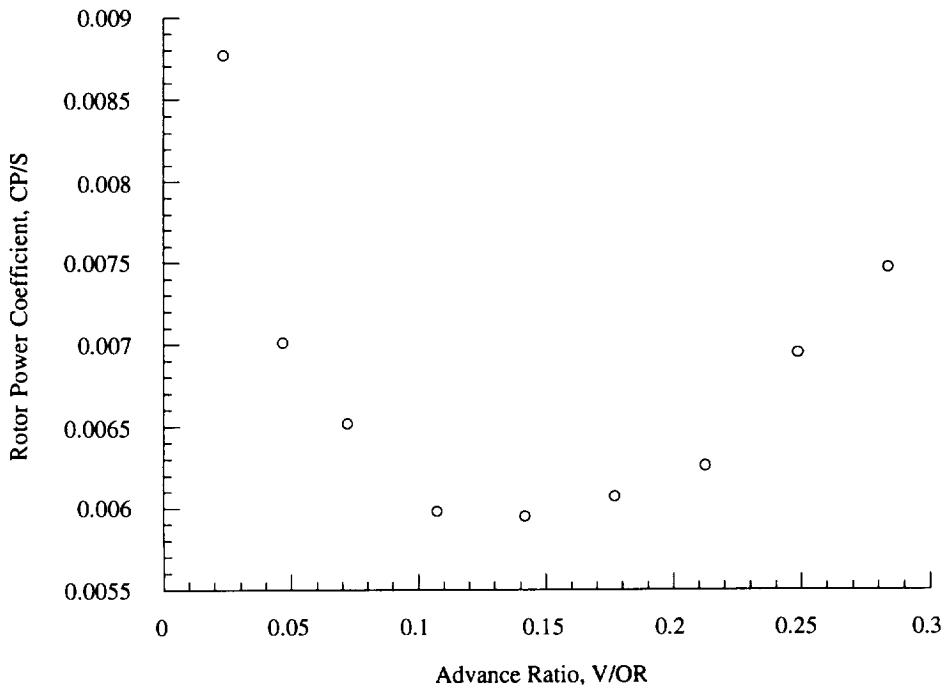


Figure 20(g). Rotor power coefficient as a function of advance ratio, $\alpha = -7.5 \text{ deg}$, $C_T/\sigma = 0.10$.

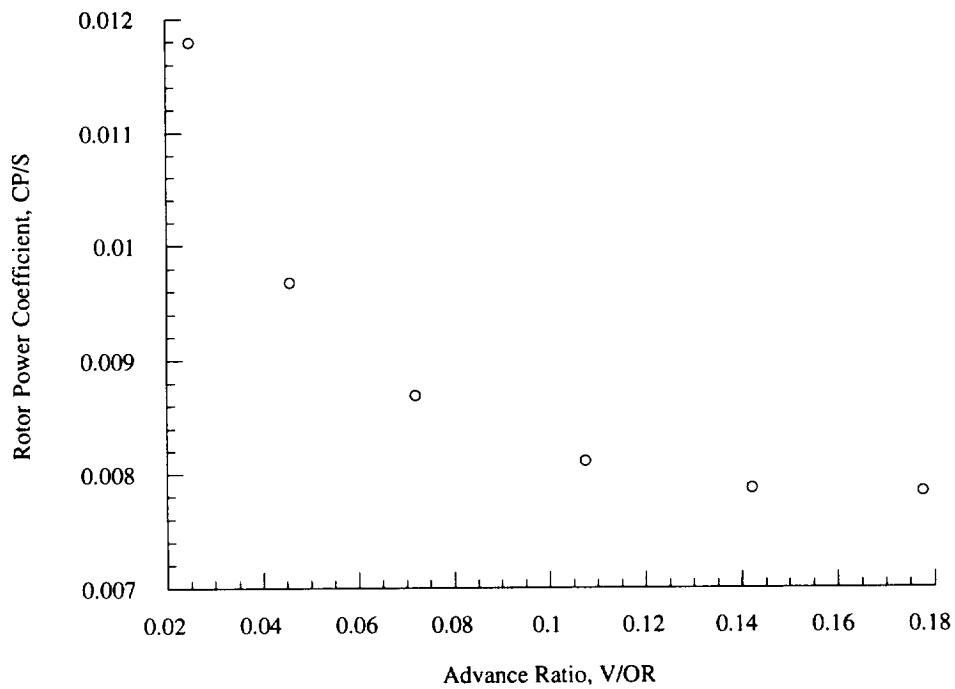


Figure 20(h). Rotor power coefficient as a function of advance ratio, $\alpha = -7.5 \text{ deg}$, $C_T/\sigma = 0.12$.

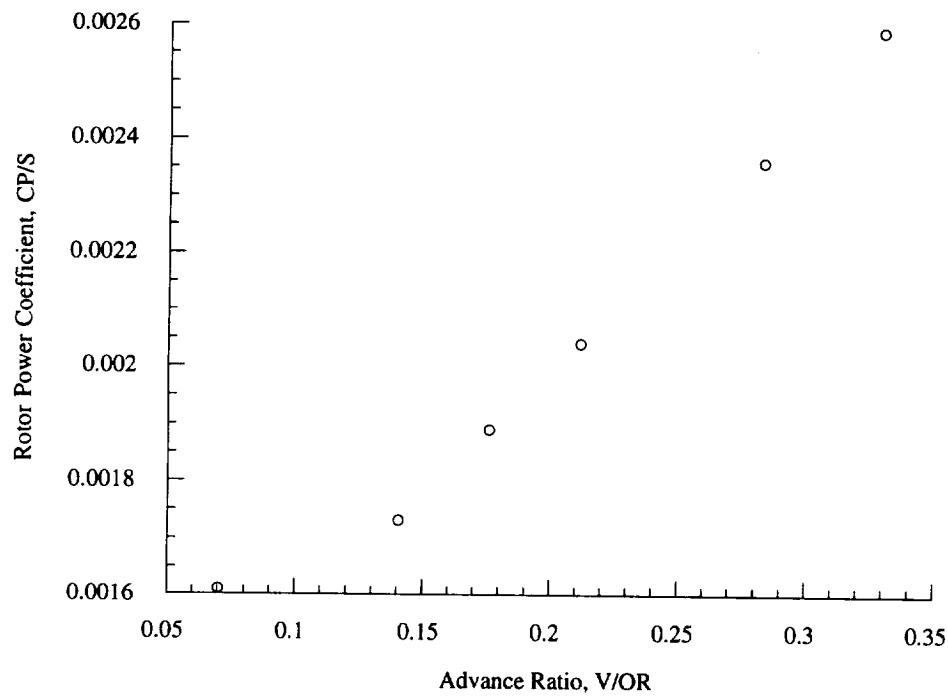


Figure 21(a). Rotor power coefficient as a function of advance ratio, $\alpha = -10 \text{ deg}$, $C_T/\sigma = 0.02$.

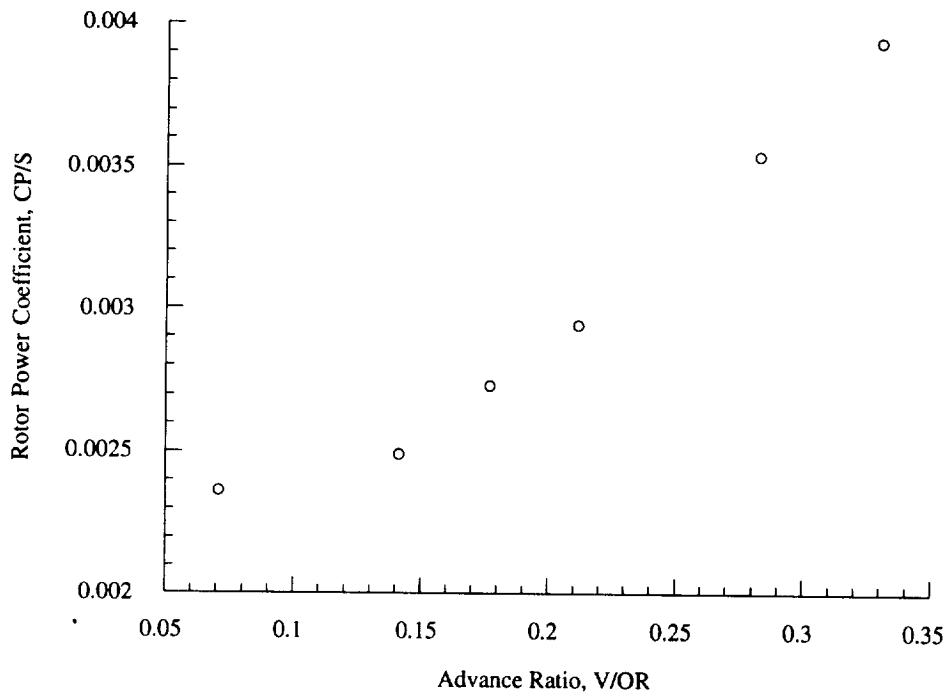


Figure 21(b). Rotor power coefficient as a function of advance ratio, $\alpha = -10 \text{ deg}$, $C_T/\sigma = 0.04$.

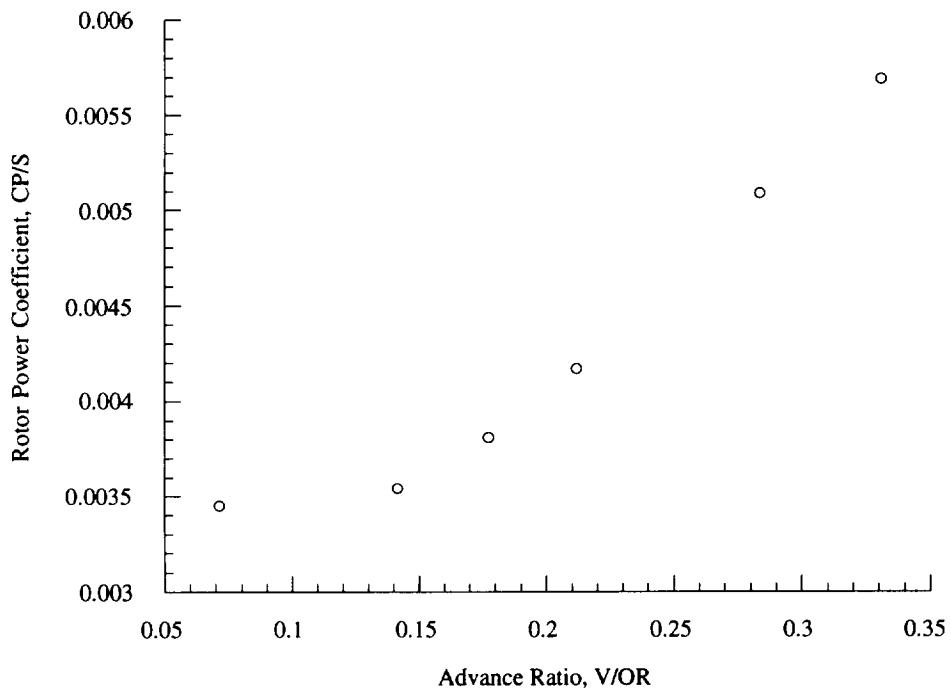


Figure 21(c). Rotor power coefficient as a function of advance ratio, $\alpha = -10 \text{ deg}$, $C_T/\sigma = 0.06$.

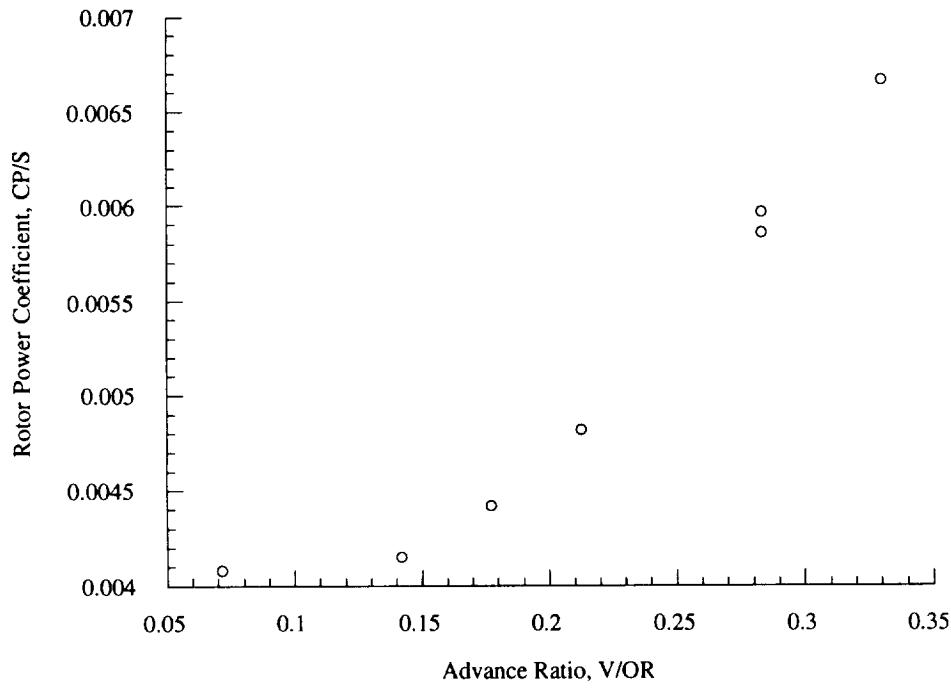


Figure 21(d). Rotor power coefficient as a function of advance ratio, $\alpha = -10 \text{ deg}$, $C_T/\sigma = 0.07$.

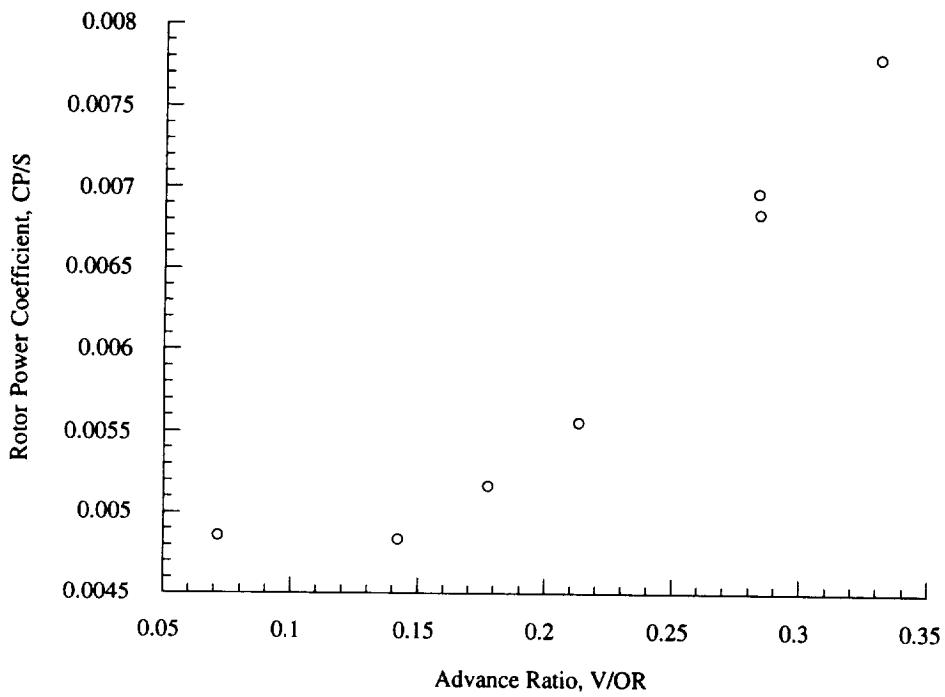


Figure 21(e). Rotor power coefficient as a function of advance ratio, $\alpha = -10 \text{ deg}$, $C_T/\sigma = 0.08$.

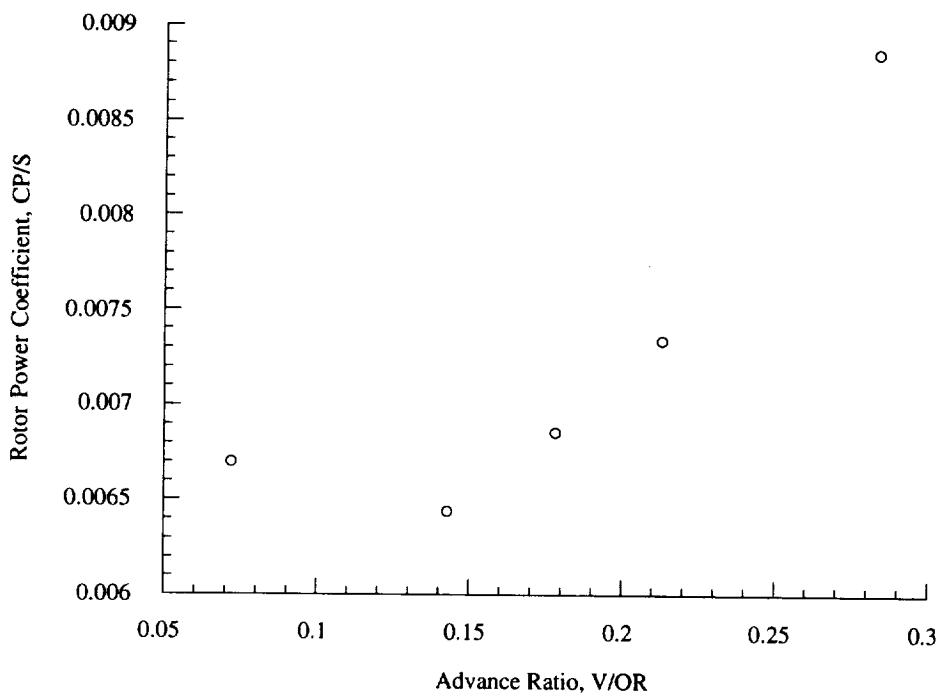


Figure 21(f). Rotor power coefficient as a function of advance ratio, $\alpha = -10 \text{ deg}$, $C_T/\sigma = 0.10$.

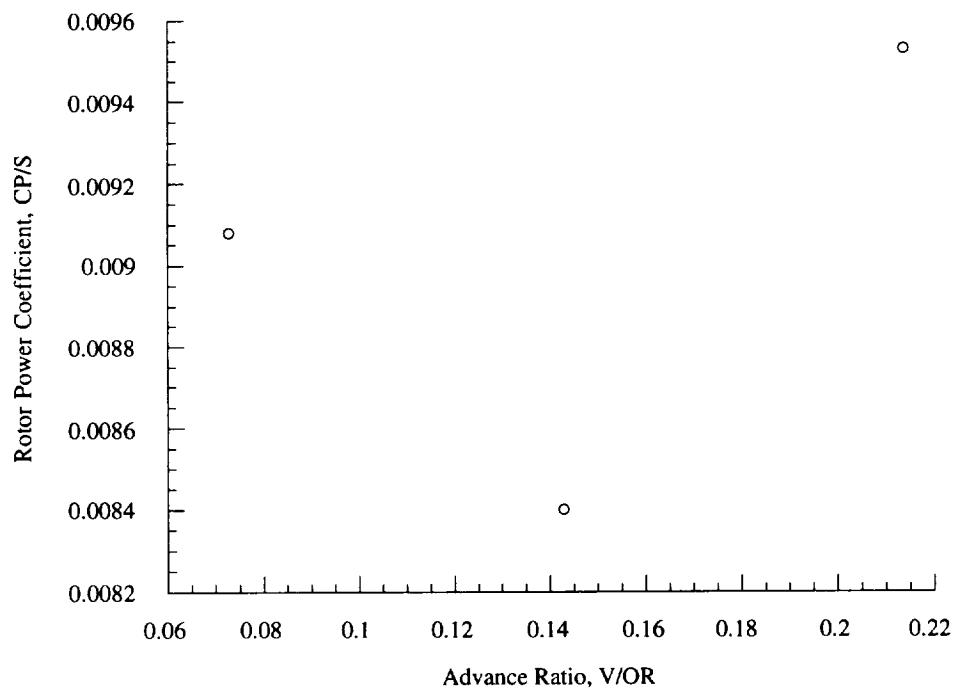


Figure 21(g). Rotor power coefficient as a function of advance ratio, $\alpha = -10 \text{ deg}$, $C_T/\sigma = 0.12$.

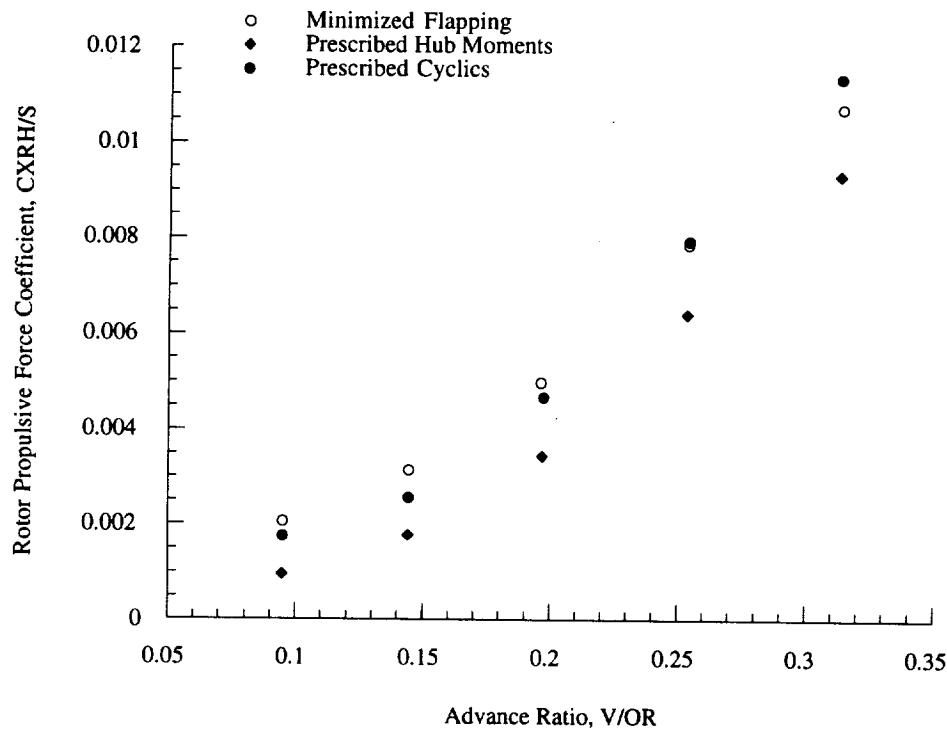


Figure 22(a). Rotor propulsive force coefficient as a function of advance ratio, $C_T/\sigma = 0.071$.

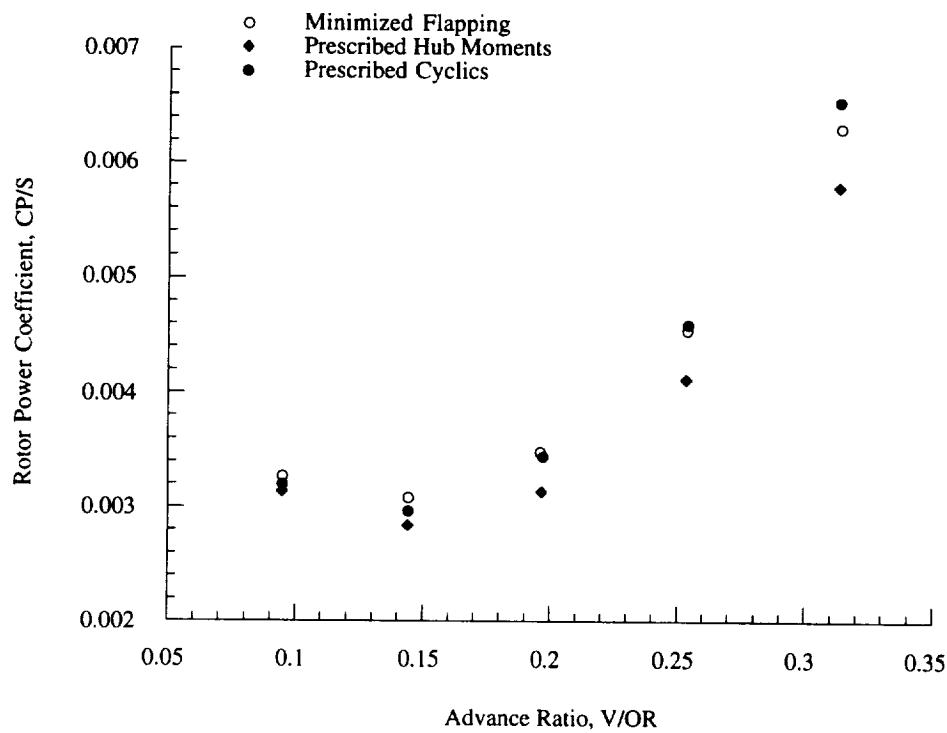


Figure 22(b). Rotor power coefficient as a function of advance ratio, $C_T/\sigma = 0.071$.

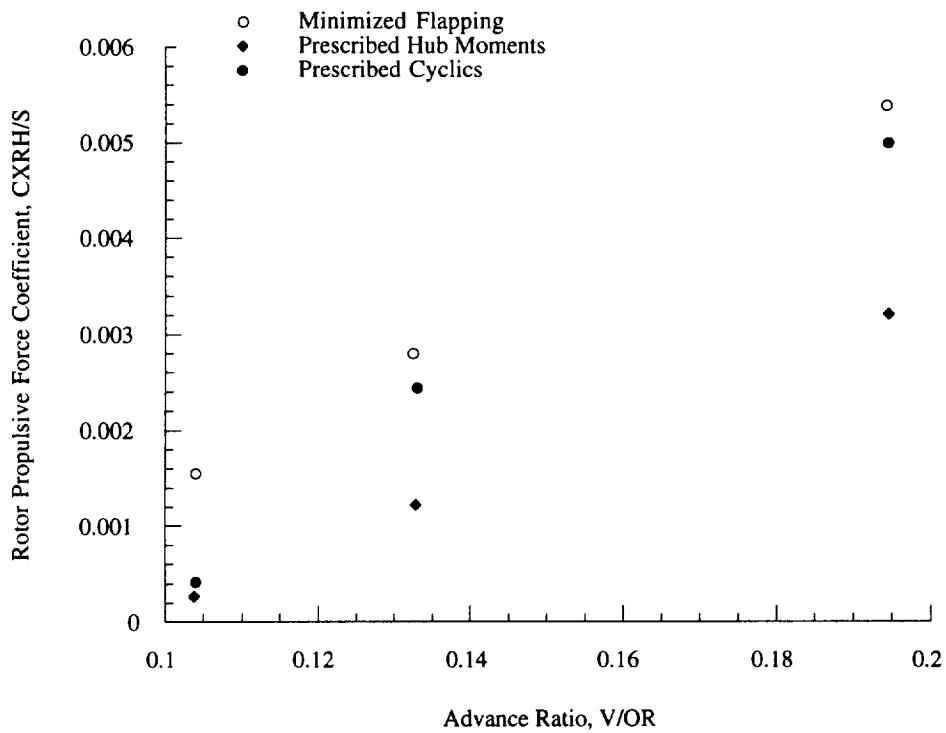


Figure 23(a). Rotor propulsive force coefficient as a function of advance ratio, $C_T/\sigma = 0.089$.

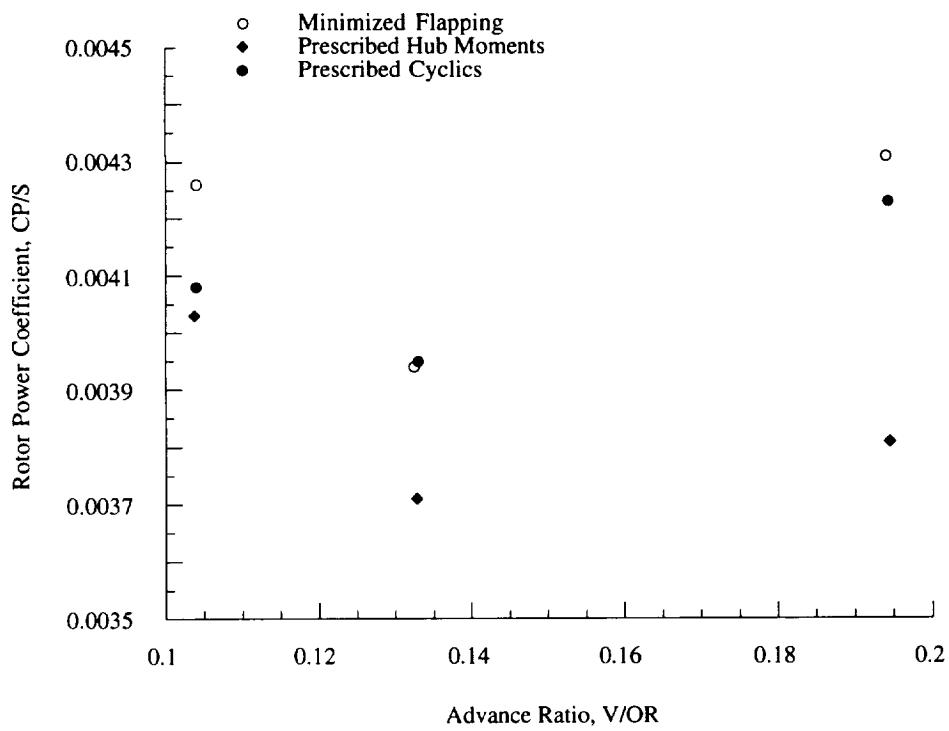


Figure 23(b). Rotor power coefficient as a function of advance ratio, $C_T/\sigma = 0.089$.

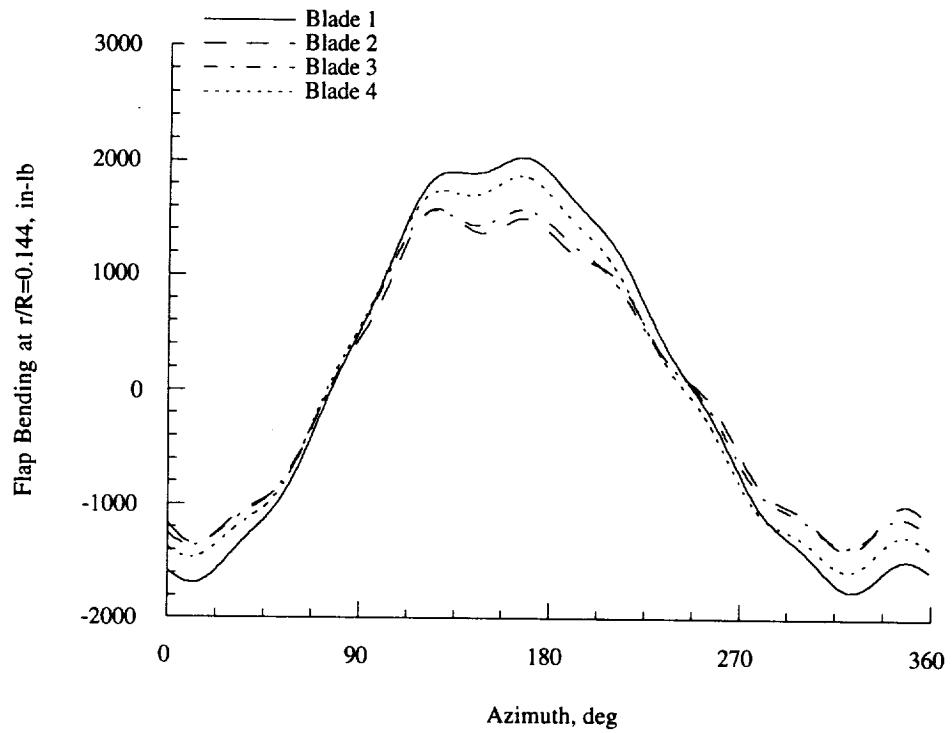


Figure 24. Comparison of oscillatory flap bending moments for all four blades at $r/R = 0.144$, $C_T/\sigma = 0.071$, $\mu = 0.197$, $\alpha = -4.8$ deg.

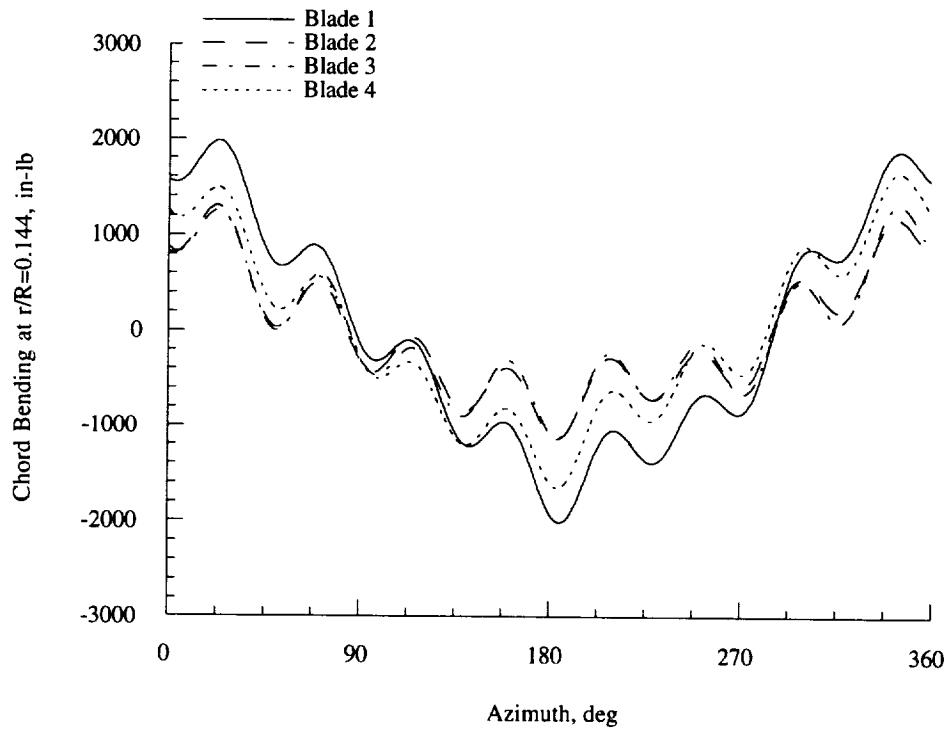


Figure 25. Comparison of oscillatory chord bending moments for all four blades at $r/R = 0.144$, $C_T/\sigma = 0.071$, $\mu = 0.197$, $\alpha = -4.8$ deg.

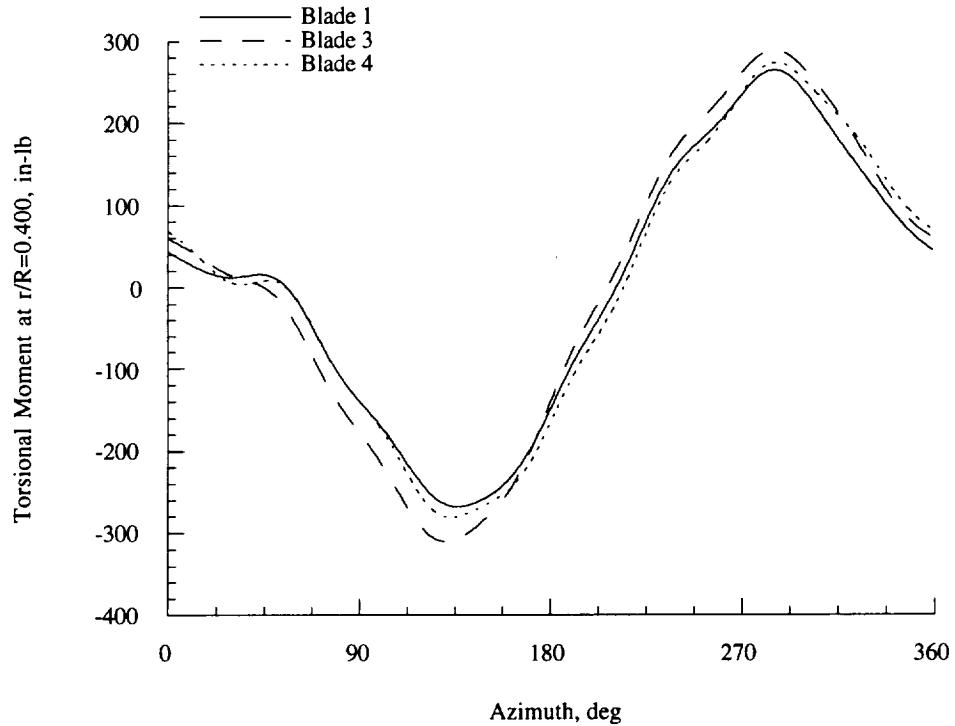


Figure 26. Comparison of oscillatory torsional moments for all four blades at $r/R = 0.400$, $C_T/\sigma = 0.071$, $\mu = 0.197$, $\alpha = -4.8$ deg.

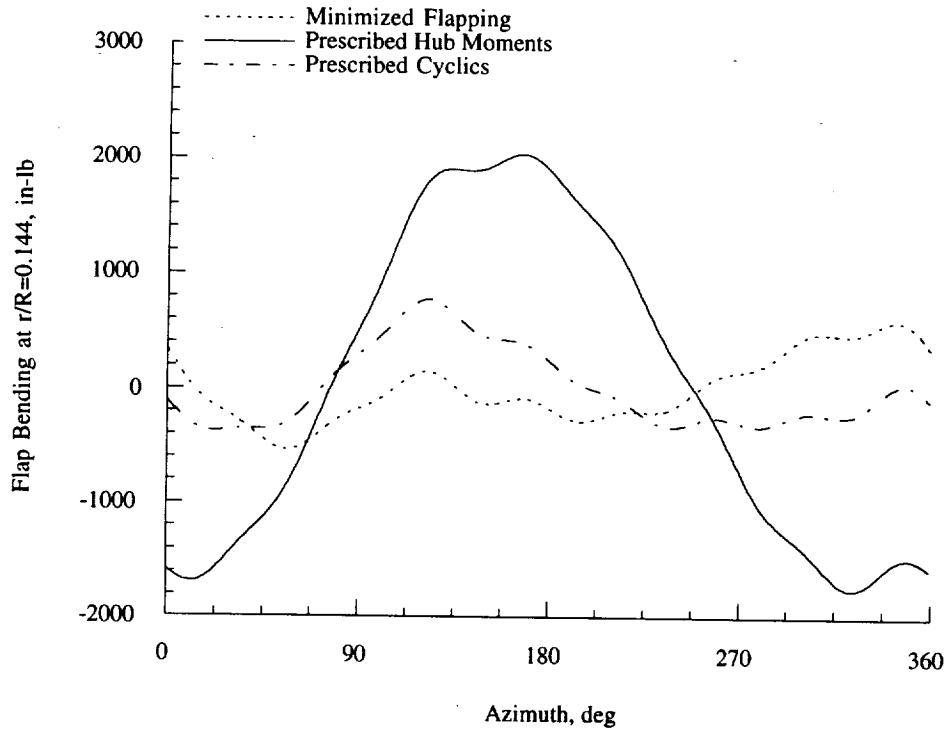


Figure 27(a). Comparison of oscillatory flap bending moments with three different wind tunnel trim procedures, flap bending moment at $r/R = 0.144$, $C_T/\sigma = 0.071$, $\mu = 0.197$, $\alpha = -4.8$ deg.

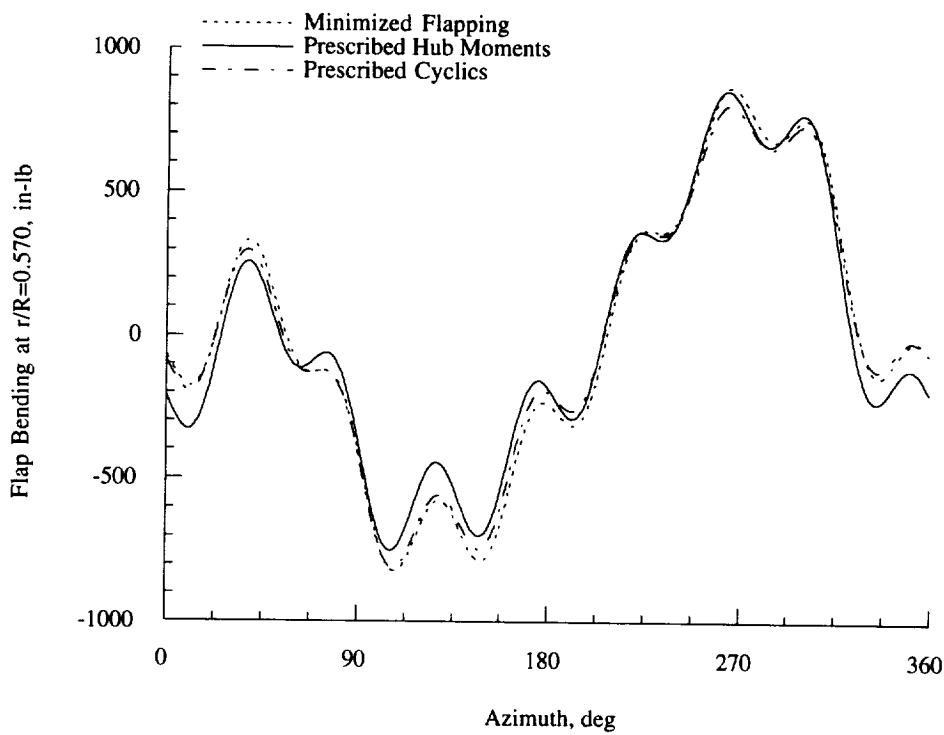


Figure 27(b). Comparison of oscillatory flap bending moments with three different wind tunnel trim procedures, flap bending moment at $r/R = 0.570$, $C_T/\sigma = 0.071$, $\mu = 0.197$, $\alpha = -4.8$ deg.

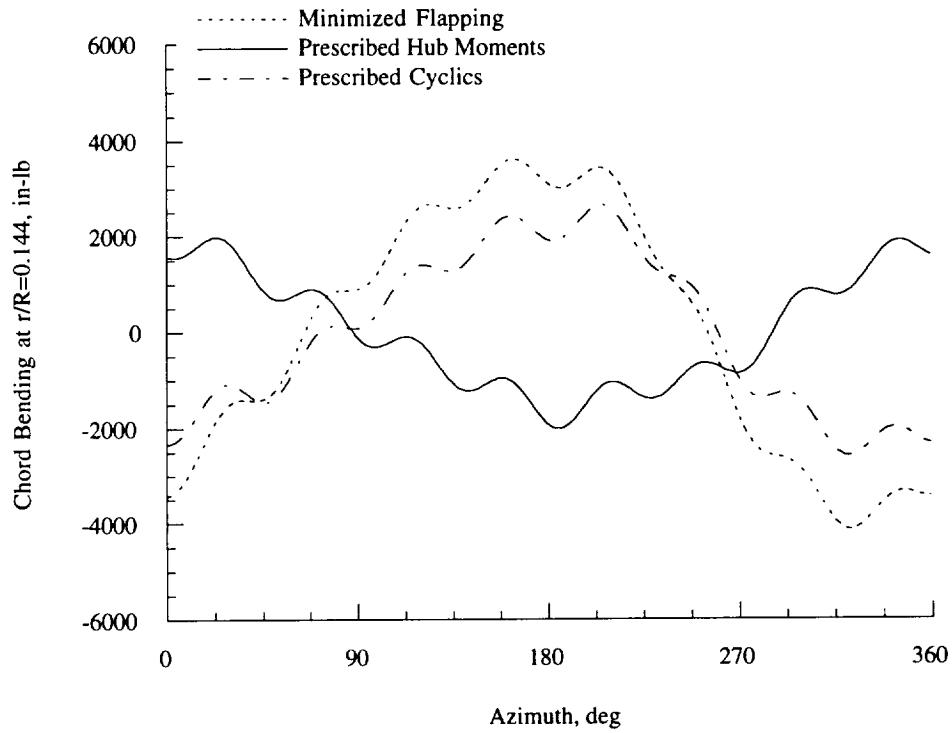


Figure 28(a). Comparison of oscillatory chord bending moments with three different wind tunnel trim procedures, chord bending moment at $r/R = 0.144$, $C_T/\sigma = 0.071$, $\mu = 0.197$, $\alpha = -4.8$ deg.

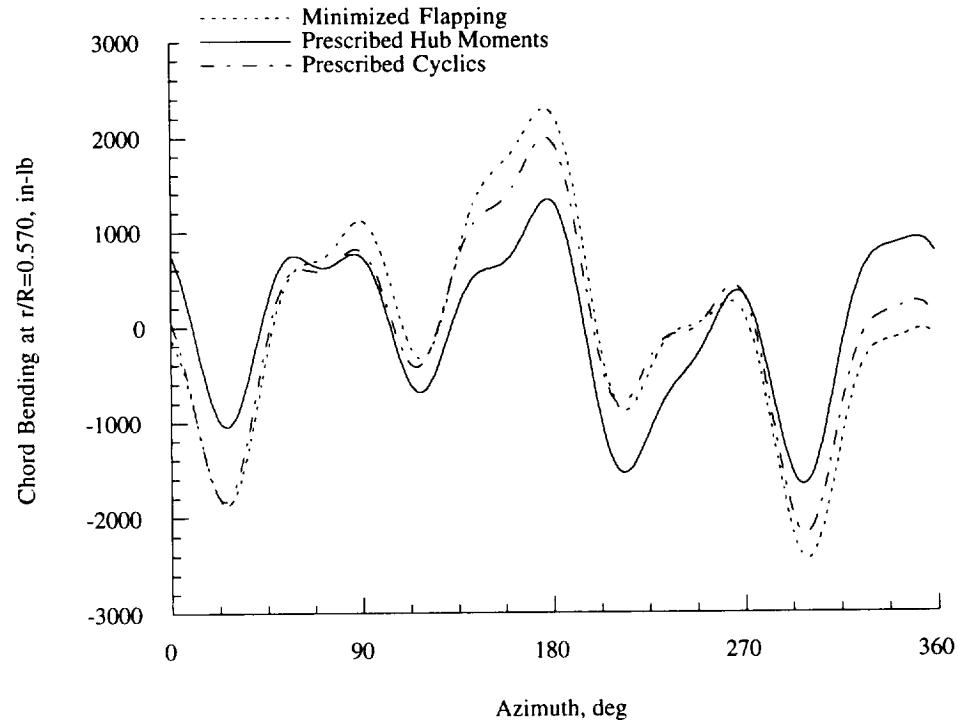


Figure 28(b). Comparison of oscillatory chord bending moments with three different wind tunnel trim procedures, chord bending moment at $r/R = 0.570$, $C_T/\sigma = 0.071$, $\mu = 0.197$, $\alpha = -4.8$ deg.

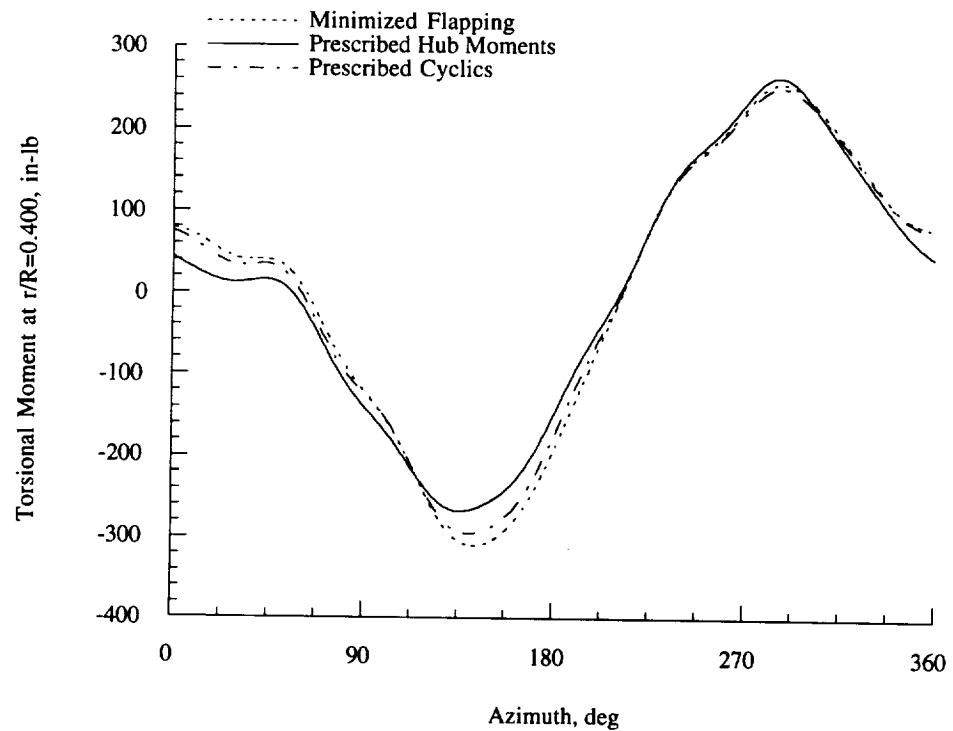


Figure 29. Comparison of oscillatory torsional moments with three different wind tunnel trim procedures, torsional moment at $r/R = 0.400$, $C_T/\sigma = 0.071$, $\mu = 0.197$, $\alpha = -4.8$ deg.

Appendix A—Run Logs

The test conditions that are documented in this report are identified in the following tables. Data points that have a check mark (✓) in the far right column are included in the subsequent appendices of this report. Definition of the measurements in the following tables is presented below.

Nomenclature

ALPH	angle of rotor shaft from vertical, positive shaft tilt aft, deg
CTH/S	ratio of rotor thrust coefficient to solidity, rotor thrust/ $\rho S(\Omega R)^2$

Point	point number
RPM	rotor rotational rate, revolutions per minute
THETA	rotor collective, $r/R = 0.7$, deg
VKTS	tunnel velocity, V, knots
V/OR	advance ratio, μ
✓	indicates that data for this test condition are included in the subsequent appendices of this report

Run 12 Log

Point	VKTS	VOR	ALPH	RPM	CTH/S	THETA	Comments
1	0.0		0.0	0		10.6	ZERO
2	0.0		0.0	0		10.6	CAL
3	0.0		0.0	0		10.6	Reference
4	0.0		0.0	425		4.0	Hover Reference
5	0.0		-10.0	425		4.0	Hover-Overhead Doors Open ✓
6	0.0		-10.0	425	0.01		Hover/Stability ✓
7	0.0		-10.0	425	0.02		Hover/Stability ✓
8	0.0		-10.0	425	0.03		Hover/Stability ✓
9	0.0		-10.0	425	0.04		Hover/Stability ✓
10	0.0		-10.0	425	0.05		Hover/Stability ✓
11	0.0		-10.0	425	0.06		Hover/Stability ✓
12	0.0		-10.0	425	0.07		Hover/Stability ✓
13	0.0		-10.0	425	0.08		Hover/Stability ✓
14	0.0		-10.0	425	0.09		Hover/Stability ✓
15	0.0		-10.0	425	0.10		Hover/Stability ✓
16	0.0		-10.0	425	0.11		Hover/Stability ✓
17	0.0		-10.0	425	0.12		Hover ✓
18	0.0		-10.0	425	0.13		Hover ✓
19	0.0		0.0	425		4.0	Hover Reference
20	0.0		0.0	0		10.6	End ZERO
21	0.0		0.0	0		10.6	End CAL
22							
23							
24							
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28							
29							
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Run 13 Log

Point	VKTS	VOR	ALPH	RPM	CTH/S	THETA	Comments
1	0.0		0.0	0		10.6	ZERO
2	0.0		0.0	0		10.6	CAL
3	0.0		0.0	0		10.6	Reference
4	0.0		0.0	425		4.0	Hover Reference
5	0.0		0.0	425	0.00		Hover-Overhead Doors Open ✓
6	0.0		0.0	425	0.01		Hover ✓
7	0.0		0.0	425	0.02		Hover ✓
8	0.0		0.0	425	0.03		Hover ✓
9	0.0		0.0	425	0.04		Hover ✓
10	0.0		0.0	425	0.05		Hover ✓
11	0.0		0.0	425	0.06		Hover ✓
12	0.0		0.0	425	0.07		Hover ✓
13	0.0		0.0	425	0.08		Hover ✓
14	0.0		0.0	425	0.09		Hover ✓
15	0.0		0.0	425	0.10		Hover ✓
16	0.0		0.0	425	0.11		Hover ✓
17	0.0		0.0	425	0.12		Hover ✓
18	0.0		0.0	425	0.13		Hover ✓
19	0.0		0.0	425		4.0	Hover Reference ✓
20	0.0		0.0	0		10.6	End ZERO
21	0.0		0.0	0		10.6	End CAL
22							
23							
24							
25							
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Run 14 Log

Point	VKTS	VOR	ALPH	RPM	CTH/S	THETA	Comments	
1	0.0		0.0	0		10.6	ZERO	
2	0.0		0.0	0		10.6	CAL	
3	0.0		0.0	0		10.6	Reference	
4	0.0		0.0	425		4.0	Hover Reference	
5	0.0		-5.0	425	0.07		Hover	
6	30.0		-5.0	425	0.07		Minimize Flapping/Stability	✓
7	60.0		-5.0	425	0.07		Minimize Flapping/Stability	✓
8	90.0		-5.0	425	0.07		Minimize Flapping/Stability	✓
9	120.0		-5.0	425	0.07		Minimize Flapping/Stability	✓
10	140.0		-5.0	425	0.07		Minimize Flapping	✓
11	140.0		-5.0	425	0.02		Minimize Flapping	✓
12	140.0		-5.0	425	0.04		Minimize Flapping	✓
13	140.0		-5.0	425	0.06		Minimize Flapping	✓
14	140.0		-5.0	425	0.07		Minimize Flapping	✓
15	140.0		-5.0	425	0.08		Minimize Flapping	✓
16	140.0		-5.0	425	0.10		Minimize Flapping	✓
17	120.0		-5.0	425	0.02		Minimize Flapping	✓
18	120.0		-5.0	425	0.04		Minimize Flapping	✓
19	120.0		-5.0	425	0.06		Minimize Flapping	✓
20	0.0		0.0	425		4.0	Hover Reference	
21	0.0		0.0	0		10.6	End ZERO	
22	0.0		0.0	0		10.6	End CAL	
23								
24								
25								
26								
27								
28								
29								
30								
31								
32								
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Run 15 Log

Point	VKTS	VOR	ALPH	RPM	CTH/S	THETA	Comments
1	0.0		0.0	0		10.6	ZERO
2	0.0		0.0	0		10.6	CAL
3	0.0		0.0	0		10.6	Reference
4	0.0		0.0	425		4.0	Hover Reference
5	30.0		-5.0	425	0.07		Minimize Flapping
6	60.0		-5.0	425	0.07		Minimize Flapping
7	90.0		-5.0	425	0.07		Minimize Flapping
8	120.0		-5.0	425	0.07		Minimize Flapping
9	120.0		-5.0	425	0.08		Minimize Flapping/Stability
10	120.0		-5.0	425	0.10		Minimize Flapping
11	120.0		-5.0	425	0.11		Minimize Flapping
12	90.0		-5.0	425	0.02		Minimize Flapping
13	90.0		-5.0	425	0.04		Minimize Flapping
14	90.0		-5.0	425	0.06		Minimize Flapping
15	90.0		-5.0	425	0.07		Minimize Flapping
16	90.0		-5.0	425	0.08		Minimize Flapping
17	90.0		-5.0	425	0.10		Minimize Flapping
18	90.0		-5.0	425	0.12		Minimize Flapping
19	60.0		-5.0	425	0.02		Minimize Flapping
20	60.0		-5.0	425	0.04		Minimize Flapping
21	60.0		-5.0	425	0.06		Minimize Flapping
22	60.0		-5.0	425	0.07		Minimize Flapping
23	60.0		-5.0	425	0.08		Minimize Flapping
24	60.0		-5.0	425	0.10		Minimize Flapping
25	60.0		-5.0	425	0.12		Minimize Flapping
26	30.0		-5.0	425	0.02		Minimize Flapping
27	30.0		-5.0	425	0.04		Minimize Flapping
28	30.0		-5.0	425	0.06		Minimize Flapping
29	30.0		-5.0	425	0.07		Minimize Flapping
30	30.0		-5.0	425	0.08		Minimize Flapping
31	30.0		-5.0	425	0.10		Minimize Flapping
32	30.0		-5.0	425	0.12		Minimize Flapping
33	0.0		0.0	425		4.0	Hover Reference
34	0.0		0.0	0		10.6	End ZERO
35	0.0		0.0	0		10.6	End CAL
36							
37							
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Run 16 Log

Point	VKTS	VOR	ALPH	RPM	CTH/S	THETA	Comments
1	0.0		0.0	0		10.6	ZERO
2	0.0		0.0	0		10.6	CAL
3	0.0		0.0	0		10.6	Reference
4	0.0		0.0	425		4.0	Hover Reference
5	0.0		-10.0	425		4.0	Hover
6	30.0		-10.0	425	0.02		Minimize Flapping ✓
7	30.0		-10.0	425	0.04		Minimize Flapping ✓
8	30.0		-10.0	425	0.06		Minimize Flapping ✓
9	30.0		-10.0	425	0.07		Minimize Flapping ✓
10	30.0		-10.0	425	0.08		Minimize Flapping ✓
11	30.0		-10.0	425	0.10		Minimize Flapping ✓
12	30.0		-10.0	425	0.12		Minimize Flapping ✓
13	60.0		-10.0	425	0.02		Minimize Flapping ✓
14	60.0		-10.0	425	0.04		Minimize Flapping ✓
15	60.0		-10.0	425	0.06		Minimize Flapping ✓
16	60.0		-10.0	425	0.07		Minimize Flapping ✓
17	60.0		-10.0	425	0.08		Minimize Flapping ✓
18	60.0		-10.0	425	0.10		Minimize Flapping ✓
19	60.0		-10.0	425	0.12		Minimize Flapping ✓
20	90.0		-10.0	425	0.02		Minimize Flapping ✓
21	90.0		-10.0	425	0.04		Minimize Flapping ✓
22	90.0		-10.0	425	0.06		Minimize Flapping ✓
23	90.0		-10.0	425	0.07		Minimize Flapping ✓
24	90.0		-10.0	425	0.08		Minimize Flapping ✓
25	90.0		-10.0	425	0.10		Minimize Flapping ✓
26	90.0		-10.0	425	0.12		Minimize Flapping ✓
27	120.0		-10.0	425	0.02		Minimize Flapping ✓
28	120.0		-10.0	425	0.04		Minimize Flapping ✓
29	120.0		-10.0	425	0.06		Minimize Flapping ✓
30	120.0		-10.0	425	0.07		Minimize Flapping ✓
31	120.0		-10.0	425	0.08		Minimize Flapping ✓
32	0.0		0.0	425		4.0	Hover Reference
33	0.0		0.0	0		10.6	End ZERO
34	0.0		0.0	0		10.6	End CAL
35							
36							
37							
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Run 17 Log

Point	VKTS	VOR	ALPH	RPM	CTH/S	THETA	Comments
1	0.0		0.0	0		10.6	ZERO
2	0.0		0.0	0		10.6	CAL
3	0.0		0.0	0		10.6	Reference
4	0.0		0.0	425		4.0	Hover Reference
5	30.0		0.0	425	0.02		Minimize Flapping
6	30.0		0.0	425	0.04		Minimize Flapping
7	30.0		0.0	425	0.06		Minimize Flapping
8	30.0		0.0	425	0.07		Minimize Flapping
9	30.0		0.0	425	0.08		Minimize Flapping
10	30.0		0.0	425	0.10		Minimize Flapping
11	30.0		0.0	425	0.12		Minimize Flapping
12	60.0		0.0	425	0.02		Minimize Flapping
13	60.0		0.0	425	0.04		Minimize Flapping
14	60.0		0.0	425	0.06		Minimize Flapping
15	60.0		0.0	425	0.07		Minimize Flapping
16	60.0		0.0	425	0.08		Minimize Flapping
17	60.0		0.0	425	0.10		Minimize Flapping
18	60.0		0.0	425	0.12		Minimize Flapping
19	90.0		0.0	425	0.02		Minimize Flapping
20	90.0		0.0	425	0.04		Minimize Flapping
21	90.0		0.0	425	0.06		Minimize Flapping
22	90.0		0.0	425	0.07		Minimize Flapping
23	90.0		0.0	425	0.08		Minimize Flapping
24	90.0		0.0	425	0.10		Minimize Flapping
25	90.0		0.0	425	0.12		Minimize Flapping
26	120.0		0.0	425	0.02		Minimize Flapping
27	120.0		0.0	425	0.04		Minimize Flapping
28	120.0		0.0	425	0.06		Minimize Flapping
29	120.0		0.0	425	0.07		Minimize Flapping
30	120.0		0.0	425	0.08		Minimize Flapping
31	120.0		0.0	425	0.10		Minimize Flapping
32	120.0		0.0	425	0.11		Minimize Flapping
33	0.0		0.0	425		4.0	Hover Reference
34	0.0		0.0	0		10.6	End ZERO
35	0.0		0.0	0		10.6	End CAL
36							
37							
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Run 18 Log

Point	VKTS	VOR	ALPH	RPM	CTH/S	THETA	Comments
1	0.0		0.0	0		10.6	ZERO
2	0.0		0.0	0		10.6	CAL
3	0.0		0.0	0		10.6	Reference
4	0.0		0.0	0		10.6	ZERO
5	0.0		0.0	0		10.6	CAL
6	0.0		0.0	0		10.6	Reference
7	0.0		0.0	425		4.0	Hover Reference
8	30.0		-15.0	425	0.02		Minimize Flapping
9	30.0		-15.0	425	0.04		Minimize Flapping
10	30.0		-15.0	425	0.06		Minimize Flapping
11	30.0		-15.0	425	0.07		Minimize Flapping
12	30.0		-15.0	425	0.08		Minimize Flapping
13	30.0		-15.0	425	0.10		Minimize Flapping
14	30.0		-15.0	425	0.12		Minimize Flapping
15	60.0		-15.0	425	0.02		Minimize Flapping
16	60.0		-15.0	425	0.04		Minimize Flapping
17	60.0		-15.0	425	0.06		Minimize Flapping
18	60.0		-15.0	425	0.07		Minimize Flapping
19	60.0		-15.0	425	0.08		Minimize Flapping
20	60.0		-15.0	425	0.10		Minimize Flapping
21	60.0		-15.0	425	0.12		Minimize Flapping
22	90.0		-15.0	425	0.02		Minimize Flapping
23	0.0		0.0	0		10.6	End ZERO
24	0.0		0.0	0		10.6	End ZERO
25	0.0		0.0	0		10.6	End CAL
26							
27							
28							
29							
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Run 21 Log

Point	VKTS	VOR	ALPH	RPM	CTH/S	THETA	Comments
1	0.0		0.0	0		10.6	ZERO
2	0.0		0.0	0		10.6	CAL
3	0.0		0.0	0		10.6	Reference
4	0.0		0.0	425		4.0	Hover Reference
5	30.0		-5.0	425	0.02		Minimize Flapping
6	30.0		-5.0	425	0.04		Minimize Flapping
7	30.0		-5.0	425	0.06		Minimize Flapping
8	30.0		-5.0	425	0.07		Minimize Flapping
9	30.0		-5.0	425	0.08		Minimize Flapping
10	30.0		-5.0	425	0.10		Minimize Flapping
11	30.0		-5.0	425	0.12		Minimize Flapping
12	0.0		0.0	425		4.0	Hover Reference
13	0.0		0.0	0		10.6	End ZERO
14	0.0		0.0	0		10.6	End CAL
15							
16							
17							
18							
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21							
22							
23							
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Run 22 Log

Point	VKTS	VOR	ALPH	RPM	CTH/S	THETA	Comments
1	0.0		0.0	0		10.6	ZERO
2	0.0		0.0	0		10.6	CAL
3	0.0		0.0	0		10.6	Reference
4	0.0		0.0	425		4.0	Hover Reference
5	60.0		-5.0	425	0.02		Minimize Flapping/Stability ✓
6	60.0		-5.0	425	0.04		Minimize Flapping/Stability ✓
7	60.0		-5.0	425	0.06		Minimize Flapping/Stability ✓
8	60.0		-5.0	425	0.07		Minimize Flapping/Stability ✓
9	60.0		-5.0	425	0.08		Minimize Flapping/Stability ✓
10	60.0		-5.0	425	0.10		Minimize Flapping/Stability ✓
11	90.0		-5.0	425	0.02		Minimize Flapping/Stability ✓
12	90.0		-5.0	425	0.04		Minimize Flapping/Stability ✓
13	90.0		-5.0	425	0.06		Minimize Flapping/Stability ✓
14	90.0		-5.0	425	0.07		Minimize Flapping/Stability ✓
15	90.0		-5.0	425	0.08		Minimize Flapping/Stability ✓
16	105.0		-5.0	425	0.07		Minimize Flapping/Stability ✓
17	75.0		-5.0	425	0.07		Minimize Flapping/Stability ✓
18	45.0		-5.0	425	0.07		Minimize Flapping/Stability ✓
19	20.0		-5.0	425	0.07		Minimize Flapping/Stability ✓
20	10.0		-5.0	425	0.07		Minimize Flapping/Stability ✓
21	0.0		0.0	425		4.0	Hover Reference
22	0.0		0.0	0		10.6	End ZERO
23	0.0		0.0	0		10.6	End CAL
24							
25							
26							
27							
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Run 24 Log

Point	VKTS	VOR	ALPH	RPM	CTH/S	THETA	Comments
1	0.0		0.0	0		10.6	ZERO
2	0.0		0.0	0		10.6	CAL
3	0.0		0.0	0		10.6	Reference
4	0.0		0.0	425		4.0	Hover Reference
5	85.0		-4.3	424	0.07		Lng = 2.8, Lat = -1.5
6	89.0		-4.3	424	0.07		Lng = 2.8, Lat = -1.5
7	81.0		-4.3	424	0.07		Lng = 2.8, Lat = -1.5
8	85.0		-3.3	424	0.07		Lng = 2.8, Lat = -1.5
9	85.0		-5.3	424	0.07		Lng = 2.8, Lat = -1.5
10	85.0		-4.3	424	0.07		Lng = 2.8, Lat = -1.5
11	85.0		-4.3	424	0.07		Lng = 2.5, Lat = -1.5
12	85.0		-4.3	424	0.07		Lng = 3.1, Lat = -1.5
13	85.0		-4.3	424	0.07		Lng = 2.8, Lat = -2.0
14	85.0		-4.3	424	0.07		Lng = 2.8, Lat = -1.0
15	85.0		-4.3	434	0.07		Lng = 2.8, Lat = -1.5
16	85.0		-4.3	414	0.07		Lng = 2.8, Lat = -1.5
17	85.0		-4.3	424	0.07		Lng = 2.8, Lat = -1.5
18	75.0		0.0	425	0.02		Minimize Flapping
19	75.0		0.0	425	0.04		Minimize Flapping
20	75.0		0.0	425	0.06		Minimize Flapping
21	75.0		0.0	425	0.07		Minimize Flapping
22	75.0		0.0	425	0.08		Minimize Flapping
23	75.0		0.0	425	0.10		Minimize Flapping
24	0.0		0.0	0		10.6	End ZERO
25	0.0		0.0	0		10.6	End CAL
26							
27							
28							
29							
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Run 28 Log

Point	VKTS	VOR	ALPH	RPM	CTH/S	THETA	Comments
1	0.0		0.0	0		10.6	ZERO
2	0.0		0.0	0		10.6	CAL
3	0.0		0.0	0		10.6	Reference
4	0.0		0.0	425		4.0	Hover Reference
5	10.0		0.0	425	0.02		Minimize Flapping ✓
6	10.0		0.0	425	0.04		Minimize Flapping ✓
7	10.0		0.0	425	0.06		Minimize Flapping ✓
8	10.0		0.0	425	0.07		Minimize Flapping/Stability ✓
9	10.0		0.0	425	0.08		Minimize Flapping ✓
10	10.0		0.0	425	0.10		Minimize Flapping ✓
11	10.0		0.0	425	0.12		Minimize Flapping ✓
12	20.0		0.0	425	0.02		Minimize Flapping ✓
13	20.0		0.0	425	0.04		Minimize Flapping ✓
14	20.0		0.0	425	0.06		Minimize Flapping ✓
15	20.0		0.0	425	0.07		Minimize Flapping/Stability ✓
16	20.0		0.0	425	0.08		Minimize Flapping ✓
17	20.0		0.0	425	0.10		Minimize Flapping ✓
18	20.0		0.0	425	0.12		Minimize Flapping ✓
19	30.0		0.0	425	0.07		Minimize Flapping/Stability ✓
20	45.0		0.0	425	0.02		Minimize Flapping ✓
21	45.0		0.0	425	0.04		Minimize Flapping ✓
22	45.0		0.0	425	0.06		Minimize Flapping ✓
23	45.0		0.0	425	0.07		Minimize Flapping/Stability ✓
24	45.0		0.0	425	0.08		Minimize Flapping ✓
25	45.0		0.0	425	0.10		Minimize Flapping ✓
26	45.0		0.0	425	0.12		Minimize Flapping ✓
27	60.0		0.0	425	0.07		Minimize Flapping/Stability ✓
28	75.0		0.0	425	0.07		Minimize Flapping/Stability ✓
29	90.0		0.0	425	0.07		Minimize Flapping/Stability ✓
30	105.0		0.0	425	0.02		Minimize Flapping ✓
31	105.0		0.0	425	0.04		Minimize Flapping ✓
32	105.0		0.0	425	0.06		Minimize Flapping ✓
33	105.0		0.0	425	0.07		Minimize Flapping/Stability ✓
34	105.0		0.0	425	0.08		Minimize Flapping ✓
35	105.0		0.0	425	0.10		Minimize Flapping ✓
36	105.0		0.0	425	0.11		Minimize Flapping ✓
37	120.0		0.0	425	0.07		Minimize Flapping/Stability ✓
38	140.0		0.0	425	0.07		Minimize Flapping/Stability ✓
39	0.0		0.0	0		10.6	End ZERO
40	0.0		0.0	0		10.6	End CAL
41							
42							
43							
44							
45							
46							
47							
48							
49							
50							

Run 34 Log

Point	VKTS	VOR	ALPH	RPM	CTH/S	THETA	Comments
1	0.0		0.0	0		10.6	ZERO
2	0.0		0.0	0		10.6	CAL
3	0.0		0.0	0		10.6	ZERO
4	0.0		0.0	0		10.6	CAL
5	0.0		0.0	0		10.6	Reference
6	0.0		0.0	425		4.0	Hover Reference
7	45.0		-5.0	425	0.02		Minimize Flapping/Stability ✓
8	45.0		-5.0	425	0.04		Minimize Flapping/Stability ✓
9	45.0		-5.0	425	0.06		Minimize Flapping/Stability ✓
10	45.0		-5.0	425	0.07		Minimize Flapping/Stability ✓
11	45.0		-5.0	425	0.08		Minimize Flapping/Stability ✓
12	45.0		-5.0	425	0.09		Minimize Flapping/Stability ✓
13	45.0		-5.0	425	0.10		Minimize Flapping/Stability ✓
14	45.0		-5.0	425	0.12		Minimize Flapping/Stability ✓
15	75.0		-5.0	425	0.02		Minimize Flapping/Stability ✓
16	75.0		-5.0	425	0.04		Minimize Flapping/Stability ✓
17	75.0		-5.0	425	0.06		Minimize Flapping/Stability ✓
18	75.0		-5.0	425	0.07		Minimize Flapping/Stability ✓
19	75.0		-5.0	425	0.08		Minimize Flapping/Stability ✓
20	75.0		-5.0	425	0.09		Minimize Flapping/Stability ✓
21	75.0		-5.0	425	0.10		Minimize Flapping/Stability ✓
22	75.0		-5.0	425	0.12		Minimize Flapping/Stability ✓
23	105.0		-5.0	425	0.02		Minimize Flapping/Stability ✓
24	105.0		-5.0	425	0.04		Minimize Flapping/Stability ✓
25	105.0		-5.0	425	0.06		Minimize Flapping/Stability ✓
26	105.0		-5.0	425	0.07		Minimize Flapping/Stability ✓
27	105.0		-5.0	425	0.08		Minimize Flapping/Stability ✓
28	105.0		-5.0	425	0.09		Minimize Flapping/Stability ✓
29	105.0		-5.0	425	0.10		Minimize Flapping/Stability ✓
30	105.0		-5.0	425	0.11		Minimize Flapping/Stability ✓
31	20.0		-5.0	425	0.02		Minimize Flapping/Stability ✓
32	20.0		-5.0	425	0.04		Minimize Flapping/Stability ✓
33	20.0		-5.0	425	0.06		Minimize Flapping/Stability ✓
34	20.0		-5.0	425	0.07		Minimize Flapping/Stability ✓
35	20.0		-5.0	425	0.08		Minimize Flapping/Stability ✓
36	20.0		-5.0	425	0.09		Minimize Flapping/Stability ✓
37	20.0		-5.0	425	0.10		Minimize Flapping/Stability ✓
38	20.0		-5.0	425	0.12		Minimize Flapping/Stability ✓
39	0.0		0.0	425		4.0	Hover Reference
40	0.0		0.0	0		10.6	End ZERO
41	0.0		0.0	0		10.6	End CAL
42							
43							
44							
45							
46							
47							
48							
49							
50							

Run 35 Log

Point	VKTS	VOR	ALPH	RPM	CTH/S	THETA	Comments
1	0.0		0.0	0		10.6	ZERO
2	0.0		0.0	0		10.6	CAL
3	0.0		0.0	0		10.6	Reference
4	0.0		0.0	425		4.0	Hover Reference
5	90.0		-7.5	425	0.02		Minimize Flapping
6	90.0		-7.5	425	0.04		Minimize Flapping
7	90.0		-7.5	425	0.06		Minimize Flapping
8	90.0		-7.5	425	0.07		Minimize Flapping
9	90.0		-7.5	425	0.08		Minimize Flapping
10	90.0		-7.5	425	0.09		Minimize Flapping
11	90.0		-7.5	425	0.10		Minimize Flapping
12	90.0		-7.5	425	0.11		Minimize Flapping
13	105.0		-7.5	425	0.02		Minimize Flapping
14	105.0		-7.5	425	0.04		Minimize Flapping
15	105.0		-7.5	425	0.06		Minimize Flapping
16	105.0		-7.5	425	0.07		Minimize Flapping
17	105.0		-7.5	425	0.08		Minimize Flapping
18	105.0		-7.5	425	0.09		Minimize Flapping
19	105.0		-7.5	425	0.10		Minimize Flapping
20	105.0		-7.5	425	0.11		Minimize Flapping
21	120.0		-7.5	425	0.02		Minimize Flapping
22	120.0		-7.5	425	0.04		Minimize Flapping
23	120.0		-7.5	425	0.06		Minimize Flapping
24	120.0		-7.5	425	0.07		Minimize Flapping
25	120.0		-7.5	425	0.08		Minimize Flapping
26	120.0		-7.5	425	0.09		Minimize Flapping
27	120.0		-7.5	425	0.10		Minimize Flapping
28	140.0		-7.5	425	0.02		Minimize Flapping
29	140.0		-7.5	425	0.04		Minimize Flapping
30	140.0		-7.5	425	0.06		Minimize Flapping
31	140.0		-7.5	425	0.07		Minimize Flapping
32	75.0		-7.5	425	0.02		Minimize Flapping
33	75.0		-7.5	425	0.04		Minimize Flapping
34	75.0		-7.5	425	0.06		Minimize Flapping
35	0.0		0.0	425		4.0	Hover Reference
36	0.0		0.0	0		10.6	End ZERO
37	0.0		0.0	0		10.6	End CAL
38							
39							
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41							
42							
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46							
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48							
49							
50							

Run 39 Log

Point	VKTS	VOR	ALPH	RPM	CTH/S	THETA	Comments
1	0.0		0.0	0		10.6	ZERO
2	0.0		0.0	0		10.6	CAL
3	0.0		0.0	0		10.6	Reference
4	0.0		0.0	425		4.0	Hover Reference
5	106.0	0.250	-7.3	424			T=4964, P=-30, R=-833
6	106.0	0.250	-6.7	424			T=4964, P=-1380, R=-833
7	76.0	0.180	-2.1	424	0.06		VDESCNT=413, MTIP=0.64
8	76.0	0.180	0.8	424	0.06		VDESCNT=807, MTIP=0.64
9	76.0	0.180	0.8	424	0.06		VDESCNT=807, MTIP=0.64
10	106.0	0.249	-6.9	424	0.06		VDESCNT=551, MTIP=0.64
11	106.0	0.249	-6.9	424	0.06		VDESCNT=551, MTIP=0.64
12	140.0		-7.5	424	0.07		Minimize Flapping
13	140.0		-7.5	425	0.08		Minimize Flapping
14	140.0		-7.5	425	0.09		Minimize Flapping
15	0.0		0.0	425		4.0	Hover Reference
16	0.0		0.0	0		10.6	End ZERO
17	0.0		0.0	0		10.6	End CAL
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							
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35							
36							
37							
38							
39							
40							
41							
42							
43							
44							
45							
46							
47							
48							
49							
50							

Run 40 Log

Point	VKTS	VOR	ALPH	RPM	CTH/S	THETA	Comments
1	0.0		0.0	0		10.6	ZERO
2	0.0		0.0	0		10.6	CAL
3	0.0		0.0	0		10.6	Reference
4	0.0		0.0	425		4.0	Hover Reference
5	30.0		-7.5	425	0.02		Minimize Flapping ✓
6	30.0		-7.5	425	0.04		Minimize Flapping ✓
7	30.0		-7.5	425	0.06		Minimize Flapping ✓
8	30.0		-7.5	425	0.07		Minimize Flapping ✓
9	30.0		-7.5	425	0.08		Minimize Flapping ✓
10	30.0		-7.5	425	0.09		Minimize Flapping ✓
11	30.0		-7.5	425	0.10		Minimize Flapping ✓
12	30.0		-7.5	425	0.12		Minimize Flapping ✓
13	45.0		-7.5	425	0.02		Minimize Flapping ✓
14	45.0		-7.5	425	0.04		Minimize Flapping ✓
15	45.0		-7.5	425	0.06		Minimize Flapping ✓
16	45.0		-7.5	425	0.07		Minimize Flapping ✓
17	45.0		-7.5	425	0.08		Minimize Flapping ✓
18	45.0		-7.5	425	0.09		Minimize Flapping ✓
19	45.0		-7.5	425	0.10		Minimize Flapping ✓
20	45.0		-7.5	425	0.12		Minimize Flapping ✓
21	60.0		-7.5	425	0.02		Minimize Flapping ✓
22	60.0		-7.5	425	0.04		Minimize Flapping ✓
23	60.0		-7.5	425	0.06		Minimize Flapping ✓
24	60.0		-7.5	425	0.07		Minimize Flapping ✓
25	60.0		-7.5	425	0.08		Minimize Flapping ✓
26	60.0		-7.5	425	0.09		Minimize Flapping ✓
27	60.0		-7.5	425	0.10		Minimize Flapping ✓
28	60.0		-7.5	425	0.12		Minimize Flapping ✓
29	75.0		-7.5	425	0.07		Minimize Flapping ✓
30	75.0		-7.5	425	0.08		Minimize Flapping ✓
31	75.0		-7.5	425	0.09		Minimize Flapping ✓
32	75.0		-7.5	425	0.10		Minimize Flapping ✓
33	75.0		-7.5	425	0.12		Minimize Flapping ✓
34	150.0		-5.0	425	0.04		Minimize Flapping ✓
35	150.0		-5.0	425	0.06		Minimize Flapping ✓
36	150.0		-5.0	425	0.07		Minimize Flapping ✓
37	150.0		-5.0	425	0.08		Minimize Flapping ✓
38	160.0		-5.0	425	0.04		Minimize Flapping ✓
39	160.0		-5.0	425	0.06		Minimize Flapping ✓
40	160.0		-5.0	425	0.07		Minimize Flapping ✓
41	160.0		-5.0	425	0.08		Minimize Flapping ✓
42	170.0		-5.0	425	0.04		Minimize Flapping ✓
43	170.0		-5.0	425	0.06		Minimize Flapping ✓
44	0.0		0.0	425		6.6	Hover Reference
45	0.0		0.0	0		10.6	End ZERO
46	0.0		0.0	0		10.6	End CAL
47							
48							
49							
50							

Run 41 Log

Point	VKTS	VOR	ALPH	RPM	CTH/S	THETA	Comments
1	0.0		0.0	0		10.6	ZERO
2	0.0		0.0	0		10.6	CAL
3	0.0		0.0	0		10.6	Reference
4	0.0		0.0	425		4.0	Hover Reference
5	106.0	0.250	-7.1	424			T=4854, Lng=4.1, Lat=-0.9
6	106.0	0.250	-7.1	424			T=4854, P=-1490, R=-860
7	106.0	0.250	-7.1	424			T=4854, P=0, R=-860
8	106.0	0.250	-7.1	424			T=4854, P=1490, R=-860
9	64.0	0.150	-3.3	424			T=4860, Lng=1.6, Lat=-1.9
10	64.0	0.150	-3.3	424			T=4860, P=-1694, R=-454
11	64.0	0.150	-3.3	424			T=4860, P=0, R=-454
12	64.0	0.150	-3.3	424			T=4860, P=1694, R=-454
13	75.0		-10.0	425	0.02		Minimize Flapping
14	75.0		-10.0	425	0.04		Minimize Flapping
15	75.0		-10.0	425	0.06		Minimize Flapping
16	75.0		-10.0	425	0.07		Minimize Flapping
17	75.0		-10.0	425	0.08		Minimize Flapping
18	75.0		-10.0	425	0.10		Minimize Flapping
19	120.0		-10.0	425	0.12		Minimize Flapping
20	120.0		-10.0	425	0.07		Minimize Flapping
21	120.0		-10.0	425	0.08		Minimize Flapping
22	120.0		-10.0	425	0.10		Minimize Flapping
23	120.0		-10.0	425	0.11		Minimize Flapping
24	140.0		-10.0	425	0.02		Minimize Flapping
25	140.0		-10.0	425	0.04		Minimize Flapping
26	140.0		-10.0	425	0.06		Minimize Flapping
27	140.0		-10.0	425	0.07		Minimize Flapping
28	140.0		-10.0	425	0.08		Minimize Flapping
29	140.0		-10.0	425	0.09		Minimize Flapping
30	20.0		-7.5	425	0.02		Minimize Flapping
31	20.0		-7.5	425	0.04		Minimize Flapping
32	20.0		-7.5	425	0.06		Minimize Flapping
33	20.0		-7.5	425	0.07		Minimize Flapping
34	20.0		-7.5	425	0.08		Minimize Flapping
35	20.0		-7.5	425	0.10		Minimize Flapping
36	20.0		-7.5	425	0.12		Minimize Flapping
37	10.0		-7.5	425	0.02		Minimize Flapping
38	10.0		-7.5	425	0.04		Minimize Flapping
39	10.0		-7.5	425	0.06		Minimize Flapping
40	10.0		-7.5	425	0.07		Minimize Flapping
41	10.0		-7.5	425	0.08		Minimize Flapping
42	10.0		-7.5	425	0.10		Minimize Flapping
43	10.0		-7.5	425	0.12		Minimize Flapping
44	0.0		0.0	425		4.0	Hover Reference
45	0.0		0.0	0		10.6	End ZERO
46	0.0		0.0	0		10.6	End CAL
47							
48							
49							
50							

Run 43 Log

Point	VKTS	VOR	ALPH	RPM	CTH/S	THETA	Comments
1	0.0			0		10.6	ZERO
2	0.0			0		10.6	CAL
3	0.0			0		10.6	Reference
4	0.0		0.0	425		4.0	Hover Reference
5	42.0	0.100	-2.5	425			T=4910, Lng=1.3, Lat=-2.6 ✓
6	42.0	0.100	-2.5	425			T=4910, P=-1300, R=-350 ✓
7	42.0	0.100	-2.5	425			T=4910, P=1300, R=-350 ✓
8	63.5	0.150	-3.3	424			T=4890, Lng=1.6, Lat=-1.9 ✓
9	63.5	0.150	-3.3	424			T=4890, P=-1700, R=-456 ✓
10	63.5	0.150	-3.3	424			T=4890, P=1700, R=-456 ✓
11	85.0	0.200	-4.8	423			T=4890, Lng=2.6, Lat=-1.3 ✓
12	85.0	0.200	-4.8	423			T=4890, P=-1690, R=-613 ✓
13	85.0	0.200	-4.8	423			T=4890, P=1690, R=-613 ✓
14	106.5	0.250	-7.1	425			T=4875, Lng=4.1, Lat=-0.9 ✓
15	106.5	0.250	-7.1	425			T=4875, P=-1500, R=-864 ✓
16	106.5	0.250	-7.1	425			T=4875, P=1500, R=-864 ✓
17	131.1	0.310	-9.6	423			T=4882, Lng=6.3, Lat=-0.9 ✓
18	0.0		0.0	0		10.6	End ZERO- Bad Point
19	0.0		0.0	0		10.6	End ZERO
20	0.0		0.0	0		10.6	End CAL
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
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44							
45							
46							
47							
48							
49							
50							

Run 46 Log

Point	VKTS	VOR	ALPH	RPM	CTH/S	THETA	Comments
1	0.0			0		10.6	ZERO
2	0.0			0		10.6	CAL
3	0.0			0		10.6	Reference
4	0.0			0		10.6	New ZERO
5	0.0			0		10.6	New CAL
6	0.0			0		10.6	New Reference
7	0.0		0.0	425		4.0	Hover Reference
8	30.0		-5.0	425	0.07		Minimize Flapping
9	60.0		-5.0	425	0.07		Minimize Flapping
10	90.0		-5.0	425	0.07		Minimize Flapping
11	120.0		-5.0	425	0.07		Minimize Flapping
12	140.0		-5.0	425	0.07		Minimize Flapping
13	132.0	0.314	-9.6	423			T=4950, Minimize Flapping ✓
14	132.0	0.314	-9.6	423			T=4950, P=1216, R=-1250 ✓
15	132.0	0.314	-9.6	423			T=4950, Lng=6.3, Lat=-0.9 ✓
16	108.0	0.254	-7.1	425			T=4907, Minimize Flapping ✓
17	108.0	0.254	-7.1	425			T=4907, P=1543, R=-849 ✓
18	108.0	0.254	-7.1	425			T=4907, Lng=4.1, Lat=-0.9 ✓
19	83.0	0.197	-4.8	423			T=4919, Minimize Flapping ✓
20	83.0	0.197	-4.8	423			T=4919, P=1697, R=-593 ✓
21	83.0	0.197	-4.8	423			T=4919, Lng=2.6, Lat=-1.3 ✓
22	61.5	0.145	-3.3	424			T=4917, Minimize Flapping ✓
23	61.5	0.145	-3.3	424			T=4917, P=1728, R=-433 ✓
24	61.5	0.145	-3.3	424			T=4917, Lng=1.6, Lat=-1.9 ✓
25	40.9	0.096	-2.5	425			T=4912, Minimize Flapping ✓
26	40.9	0.096	-2.5	425			T=4912, P=1300, R=-351 ✓
27	40.9	0.096	-2.5	425			T=4912, Lng=1.3, Lat=-2.6 ✓
28	44.1	0.104	-1.7	425			T=6312, Minimize Flapping ✓
29	44.1	0.104	-1.7	425			T=6312, P=1543, R=-553 ✓
30	44.1	0.104	-1.7	425			T=6312, Lng=1.3, Lat=-3.3 ✓
31	56.5	0.133	-2.5	425			T=6256, Minimize Flapping ✓
32	56.5	0.133	-2.5	425			T=6256, P=2127, R=-464 ✓
33	56.5	0.133	-2.5	425			T=6256, Lng=2.1, Lat=-2.5 ✓
34	82.6	0.194	-3.9	425			T=6242, Minimize Flapping ✓
35	82.6	0.194	-3.9	425			T=6242, P=2362, R=-591 ✓
36	82.6	0.194	-3.9	425			T=6242, Lng=3.4, Lat=-1.8 ✓
37	0.0		0.0	425		4.0	End Hover Reference
38	0.0		0.0	0		10.6	End ZERO
39	0.0		0.0	0		10.6	End CAL
40							
41							
42							
43							
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Appendix B—Hover Static Data

Performance data for hover test conditions are presented in the following tables. Data are grouped in terms of thrust sweeps for shaft angles-of-attack α of 0 deg and -10 deg. The rotor control positions presented in these tables are based on the fixed-system actuator positions. Definition of the measurements in the following tables is presented below.

Nomenclature

ALPHA	angle of rotor shaft from vertical, positive shaft tilt aft, deg	CP/S	ratio of rotor power coefficient to solidity, rotor power/ $\rho S(\Omega R)^3$
ALPHCP	angle of attack of control axis relative to vertical, positive shaft tilt aft, $ALPHCP = (ALPHA - B1S)$, deg	CS	speed of sound, ft/sec
A1S, B1S	coefficients in the representation of rotor blade cyclic pitch (fixed- system measurement), -A1S cos($\phi - 10$ deg) -B1S sin ($\phi - 10$ deg), deg	CXRHS/S	ratio of rotor propulsive force coefficient to solidity, wind axis, -drag/ $\rho S(\Omega R)^2$
c	rotor blade chord length, ft	CXRHS/S	ratio of rotor propulsive force coefficient to solidity, shaft axis, -drag/ $\rho S(\Omega R)^2$
CLRH/S	ratio of rotor lift force coefficient to solidity, wind axis, lift/ $\rho S(\Omega R)^2$	CYRH/S	ratio of rotor side force coefficient to solidity, wind axis, side/ $\rho S(\Omega R)^2$
CLRHS/S	ratio of rotor lift force coefficient to solidity, shaft axis, lift/ $\rho S(\Omega R)^2$	FMERIT	rotor figure of merit, $\frac{C_T^{3/2}}{C_P \sqrt{2}}$
CMXH/S	ratio of rotor rolling moment coefficient to solidity, wind axis, roll moment/ $\rho S(\Omega R)^2 R$	MAT	rotor advancing tip Mach number, $(\Omega R + V)/CS$
CMXHS/S	ratio of rotor rolling moment coefficient to solidity, shaft axis, roll moment/ $\rho S(\Omega R)^2 R$	MTIP	rotor rotational tip Mach number, $\Omega R/CS$
CMYH/S	ratio of rotor pitching moment coefficient to solidity, wind axis, pitch moment/ $\rho S(\Omega R)^2 R$	POINT	point number
CMZH/S	ratio of rotor yawing moment coefficient to solidity, wind axis, yaw moment/ $\rho S(\Omega R)^2 R$	R	rotor radius, ft
COLL	rotor collective (fixed-system measurement), deg	RHO	air density, ρ , slug/ft ³
		RUN	run number
		S	rotor reference area, $4cR$, ft ²
		V	tunnel velocity, ft/sec
		VKTS	tunnel velocity, V, knots
		VTIP	rotor tip speed, ft/sec
		V/OR	advance ratio, μ , $V/\Omega R$
		σ	rotor solidity, $S/\pi R^2$
		ϕ	rotor blade azimuth angle measured from downwind position in direction of rotation, deg
		Ω	rotor rotation frequency, rad/sec

RUN POINT	VKTS V/OR	VTIP RHO	ALPHA ALPHCP	COLL A1S	FMERIT B1S	MAT MTIP	CLRHS CLRHS/S	CXRHS CXRHS/S	CMXHS CMXHS/S	CYRH/S CYRH/S	CMZH/S CMZH/S	
12	1.7 5	0.004 0.004	717.1 0.002404	-10 -10	3.61 -0.01	0.1294 -0.04	0.6497 0.6471	0.008753 0.00891	0.001673 0.000128	0.000223 0.000441	-9.10E-05 -2.20E-05	0.001274 0.001216
12	1.7 6	0.004 0.004	716.6 0.002404	-10 -10	3.81 -0.01	0.1551 -0.05	0.6492 0.6466	0.010079 0.010259	0.001919 0.000139	0.00031 0.000536	-8.60E-05 8.90E-05	0.001327 0.001253
12	3 7	0.007 0.007	717.6 0.002404	-10 -9.9	5.13 -0.02	0.3356 -0.05	0.6521 0.6476	0.020175 0.020515	0.00372 0.00016	0.00052 0.000817	1.50E-05 -0.000344	0.001755 0.001638
12	2.4 8	0.0057 0.0064	719 0.002404	-10 -10	6.39 -0.01	0.4392 -0.04	0.6525 0.6488	0.028736 0.029217	0.005285 0.000215	0.000185 0.000563	6.40E-05 -0.00035	0.002193 0.002127
12	2.7 9	0.0064 0.0098	717 0.002405	-10 -9.9	7.55 -0.02	0.536 -0.04	0.6512 0.6471	0.039383 0.040033	0.007189 0.000241	0.000309 0.000807	0.000192 -0.000464	0.002893 0.002796
12	4.2 10	0.0098 0.0064	719.5 0.002404	-10 -9.9	8.45 -0.02	0.5828 -0.06	0.6557 0.6493	0.048061 0.048861	0.008813 0.000333	-0.000328 0.000278	0.000201 -0.000583	0.003463 0.003467
12	2.7 11	0.0064 0.0064	716.5 0.002404	-10 -10	9.56 -0.02	0.6523 -0.05	0.6507 0.6466	0.061271 0.062266	0.011089 0.000281	-0.000239 0.000543	0.000346 -7.80E-05	0.004483 0.004456
12	2.7 12	0.0064 0.0133	717.4 0.002403	-10 -9.9	10.5 -0.02	0.6566 -0.05	0.6515 0.6474	0.069333 0.070469	0.012604 0.000373	-0.001182 -0.00026	0.000109 -0.000184	0.005204 0.00533
12	5.7 13	0.0133	717.7 0.002403	-10 -9.9	11.4 -0.02	0.6673 -0.05	0.6563 0.6477	0.078264 0.079549	0.01425 0.000443	-0.001152 -6.10E-05	0.000183 -0.000356	0.006184 0.00629
12	7.6 14	0.018	715.5 0.002403	-10 -10	12.43 -0.02	0.6859 -0.04	0.6573 0.6456	0.091369 0.092887	0.016732 0.000612	-0.001392 -5.20E-05	0.000179 -0.000542	0.007595 0.007722
12	8.9 15	0.0209	718.4 0.002403	-10 -10	13.13 -0.02	0.6881 -0.05	0.6618 0.6483	0.09957 0.101143	0.017768 0.000207	-0.001346 0.000175	0.000353 0.000266	0.008643 0.008746

RUN POINT	VKTS V/OR	VTIP RHO	ALPHA ALPHCP	COLL A1S	FMERIT B1S	MAT MTIP	CLRHS CLRHS/S	CXRHS CXRH/S	CMXHS CMXHS/S	CYRH/S CYRH/S	CMZH/S CP/S
12	7.3	716	-10	13.87	0.6921	0.657	0.109302	0.019472	-0.001522	0.000373	0.009885
16	0.0171	0.002402	-10	-0.02	-0.04	0.646	0.111023	0.000196	0.000218	0.000182	0.009999
12	10.9	716.9	-10	14.74	0.6723	0.6633	0.11906	0.021432	-0.002574	-0.000144	0.011436
17	0.0258	0.002402	-10	-0.02	-0.04	0.6467	0.120973	0.000432	-0.000549	-0.000123	0.011709
12	6.2	717.5	-10	15.5	0.6692	0.6565	0.129104	0.022487	-0.002938	-0.000392	0.012949
18	0.0145	0.002401	-10	-0.04	-0.04	0.6472	0.131047	-0.000273	-0.000645	0.000554	0.013262
13	1.7	718.6	0	3.64	0.102	0.6533	0.008377	0.000101	0.000312	-7.80E-05	0.001406
4	0.004	0.002426	0.1	0.03	-0.06	0.6507	0.008377	0.000101	0.000312	-0.000142	0.001406
13	2.7	719.3	0	1.95	0	0.6555	-8.60E-05	6.30E-05	0.000169	-0.000125	0.001233
5	0.0063	0.002426	0	0.04	-0.05	0.6514	-8.60E-05	6.30E-05	0.000169	9.60E-05	0.001233
13	1.7	718.7	0	3.86	0.1332	0.6534	0.010278	7.50E-05	0.000388	-7.50E-05	0.001464
6	0.004	0.002426	0.1	0.04	-0.05	0.6508	0.010278	7.50E-05	0.000388	-0.000221	0.001464
13	2.9	717	0	5.12	0.2809	0.6538	0.019558	9.80E-05	0.000682	-1.0E-06	0.001822
7	0.0069	0.002426	0	0.03	-0.05	0.6493	0.019558	9.80E-05	0.000682	-0.000233	0.001822
13	2.9	715.3	0	6.37	0.4195	0.6523	0.03042	0.000125	0.000586	6.90E-05	0.002366
8	0.007	0.002426	0.1	0.03	-0.06	0.6478	0.03042	0.000125	0.000586	-0.000159	0.002366
13	3.4	716.8	0	7.46	0.5065	0.6543	0.039756	0.000209	0.00043	0.000118	0.002928
9	0.008	0.002426	0.1	0.03	-0.05	0.6491	0.039756	0.000209	0.00043	-0.000405	0.002928
13	4.8	716.2	0	8.45	0.5695	0.6559	0.049884	0.000216	0.000598	0.000241	0.00366
10	0.0113	0.002426	0.1	0.03	-0.05	0.6485	0.049884	0.000216	0.000598	-0.000284	0.00366
13	5.9	717.6	0	9.51	0.6151	0.6588	0.060714	0.000215	0.000596	0.00031	0.00455
11	0.0139	0.002426	0	0.03	-0.04	0.6498	0.060714	0.000215	0.000596	1.0E-05	0.00455

RUN POINT	VKTS V/OR	VTIP RHO	ALPHA ALPHACP	COLL AIS	FMERIT B1S	MAT MTP	CLRHS CLRHS/S	CXRHS CXRHS/S	CMXHS CMXHS/S	CYRH/S CYRH/S	CMZH/S CMYHS CPS
13	7	717.3	0	10.36	0.6485	0.6602	0.070919	0.000217	0.00091	0.000511	0.005449
12	0.0165	0.002427	0.1	0.03	-0.05	0.6495	0.070919	0.000217	0.00091	3.70E-05	0.005449
13	7	715.5	0	11.28	0.6582	0.6581	0.079393	0.000375	0.001195	0.000713	0.006359
13	0.0166	0.002427	0.1	0.02	-0.06	0.6473	0.079393	0.000375	0.001195	-0.00017	0.006359
13	7.2	718.2	0	12.12	0.6753	0.6613	0.089325	0.000462	0.000507	0.000475	0.007396
14	0.017	0.002426	0.1	0.02	-0.14	0.6503	0.089325	0.000462	0.000507	-0.000346	0.007396
13	6.8	716.1	0	13.01	0.6864	0.6587	0.100924	0.000646	0.000873	0.000716	0.008739
15	0.016	0.002425	0.1	0.02	-0.13	0.6483	0.100924	0.000646	0.000873	-0.000679	0.008739
13	8.5	719.2	0	13.8	0.676	0.6641	0.108106	0.000188	0.000363	0.00044	0.009838
16	0.02	0.002425	0.2	-0.02	-0.2	0.6511	0.108106	0.000188	0.000363	7.70E-05	0.009838
13	8.7	718.9	0	14.57	0.6817	0.664	0.11972	0.000145	0.00104	0.000919	0.011368
17	0.0204	0.002425	0.2	-0.02	-0.2	0.6508	0.11972	0.000145	0.00104	0.000137	0.011368
13	9.9	718.7	0	15.37	0.6648	0.6657	0.126795	0.000776	0.000921	0.000827	0.012705
18	0.0233	0.002425	0.2	-0.01	-0.19	0.6505	0.126795	0.000776	0.000921	-0.00092	0.012705
13	2.7	717.4	0	3.64	0.1159	0.6533	0.009049	0.000333	-1.10E-05	-5.30E-05	0.001389
19	0.0063	0.002424	0.2	0	-0.21	0.6492	0.009049	0.000333	-1.10E-05	0.000259	0.001389

Appendix C—Forward Flight Static Data

Performance data for forward flight test conditions with minimized flapping trim are presented in the following tables. Data are grouped in terms of shaft angles-of-attack α and increasing tunnel velocity. The rotor control positions presented in these tables are based on the fixed-system actuator positions. The test logs presented in Appendix A should be consulted for identification of test conditions presented in these tables. No wall corrections have been applied to these data. Definition of the measurements in the following tables is presented below.

Nomenclature

ALPHA	angle of rotor shaft from vertical, positive shaft tilt aft, deg	COLL	rotor collective (fixed-system measurement), deg
ALPHCP	angle of attack of control axis relative to vertical, positive shaft tilt aft, $ALPHCP = (\text{ALPHA} - B1S)$, deg	CP/S	ratio of rotor power coefficient to solidity, rotor power/ $\rho S(\Omega R)^3$ ³
A1S, B1S	coefficients in the representation of rotor blade cyclic pitch (fixed- system measurement), -A1S cos($\varphi - 10$ deg) -B1S sin ($\varphi - 10$ deg), deg	CS	speed of sound, ft/sec
c	rotor blade chord length, ft	CXRHS/S	ratio of rotor propulsive force coefficient to solidity, wind axis, -drag/ $\rho S(\Omega R)^2$
CLRH/S	ratio of rotor lift force coefficient to solidity, wind axis, lift/ $\rho S(\Omega R)^2$	CXRHS/S	ratio of rotor drag propulsive coefficient to solidity, shaft axis, -drag/ $\rho S(\Omega R)^2$
CLRHS/S	ratio of rotor lift force coefficient to solidity, shaft axis, lift/ $\rho S(\Omega R)^2$	CYRH/S	ratio of rotor side force coefficient to solidity, wind axis, side/ $\rho S(\Omega R)^2$ ²
CMXH/S	ratio of rotor rolling moment coefficient to solidity, wind axis, roll moment/ $\rho S(\Omega R)^2 R$	L/DR	rotor lift to drag ratio
CMXHS/S	ratio of rotor rolling moment coefficient to solidity, shaft axis, roll moment/ $\rho S(\Omega R)^2 R$	MAT	rotor advancing tip Mach number, $(\Omega R + V)/CS$
CMYH/S	ratio of rotor pitching moment coefficient to solidity, wind axis, pitch moment/ $\rho S(\Omega R)^2 R$	MTIP	rotor rotational tip Mach number, $\Omega R/CS$
CMZH/S	ratio of rotor yawing moment coefficient to solidity, wind axis, yaw moment/ $\rho S(\Omega R)^2 R$	POINT	point number
		R	rotor radius, ft
		RHO	air density, ρ , slug/ft ³
		RUN	run number
		S	rotor reference area, $4cR$, ft ²
		V	tunnel velocity, ft/sec
		VKTS	tunnel velocity, V, knots
		VTIP	rotor tip speed, ft/sec
		V/OR	advance ratio, μ , $V/\Omega R$
		σ	rotor solidity, $S/\pi R^2$
		φ	rotor blade azimuth angle measured from downwind position in direction of rotation, deg
		Ω	rotor rotation frequency, rad/sec

RUN POINT	VKTS V/OR	VTIP RHO	ALPHA ALPHCP	COLL A1S	L/DR B1S	MAT MTP	CLRHS CLRHS/S	CXRHS CXRHS/S	CMXHS CMXHS/S	CYRH/S CYRH/S	CMZH/S CMZH/S
28 5	10.2 0.0239	718.2 0.002369	0 -0.6	4.42 -1.72	0.3 0.58	0.663 0.6475	0.021363 0.021363	-0.000267 0.000267	0.000182 0.000182	-0.000231 0.000132	0.001633 0.001633
28 6	9.9 0.0234	715.1 0.002367	0 -0.4	6.62 -1.48	0.4 0.43	0.6595 0.6444	0.039524 0.039524	-0.000405 0.000405	-5.20E-05 -5.20E-05	-0.00041 -4.0E-05	0.002484 0.002484
28 7	9.6 0.0226	717.8 0.002358	0 -0.5	9.25 -1.45	0.3 0.47	0.6602 0.6457	0.061167 0.061167	-0.000568 0.000568	-0.000187 0.000187	-0.00065 0.000214	0.004311 0.004311
28 8	9.5 0.0223	717.7 0.002352	0 -0.5	10.22 -1.46	0.3 0.53	0.6592 0.6449	0.070277 0.070277	-0.000558 0.000558	-0.000268 0.000268	-0.000749 0.000156	0.005182 0.005182
28 9	9.8 0.023	717 0.002347	0 -0.6	10.96 -1.46	0.3 0.61	0.6584 0.6436	0.078944 0.078944	-0.000595 0.000595	-0.000219 0.000219	-0.000766 0.000321	0.006031 0.006031
28 10	9.3 0.0219	718.1 0.002345	0 -0.9	12.98 -1.36	0.3 0.87	0.6585 0.6444	0.098631 0.098631	-0.000487 0.000487	-0.000112 0.000112	-0.000895 0.000221	0.008617 0.008617
28 11	9.3 0.0219	717.3 0.002343	0 -1	14.78 -0.89	0.2 0.99	0.6576 0.6435	0.119976 0.119976	-0.000274 0.000274	-0.000109 0.000109	-0.000565 0.000386	0.011648 0.011648
22 20	9.5 0.0223	717.4 0.002343	-5 -5.7	10.26 -1.45	0.3 0.66	0.6566 0.6423	0.069643 0.069867	0.005606 -0.000485	-0.00037 9.20E-05	-0.001163 -0.000346	0.00529 0.005302
41 37	10.1 0.0237	717.8 0.002344	-7.5 -7.8	4.81 -1.28	0.3 0.29	0.653 0.6378	0.020718 0.020821	0.002147 -0.000575	0.000153 0.000114	-0.0004 0.000114	0.001826 0.001822
41 38	10.2 0.0241	716.5 0.002345	-7.5 -7.8	6.98 -1.28	0.4 0.29	0.652 0.6367	0.04012 0.040384	0.004657 -0.00062	-0.000241 0.000119	-0.000549 -0.000105	0.002735 0.002743
41 39	10.1 0.0237	718.2 0.002344	-7.5 -7.8	9.35 -1.34	0.3 0.3	0.6532 0.6381	0.060172 0.060584	0.007099 -0.000816	-0.000638 -6.0E-05	-0.000727 0.000255	0.004388 0.004434

RUN POINT	VKTS V/OR	VTIP RHO	ALPHA ALPHACP	COLL AIS	L/DR B1S	MAT MTIP	CLRHS CLRHS/S	CXRHS CXRH/S	CMXHS CMXHS/S	CYRH/S CYRH/S	CMZH/S CMZH/S CP/S
41	10.2	717.8	-7.5	10.57	0.3	0.653	0.071213	0.008923	-0.000175	-0.000525	0.005543
40	0.0241	0.002344	-8.1	-1.25	0.62	0.6377	0.071768	-0.000449	0.00055	-0.000395	0.005519
41	10.2	715.3	-7.5	11.44	0.3	0.6508	0.080701	0.009774	-0.000831	-0.000793	0.006418
41	0.0242	0.002344	-8.2	-1.25	0.65	0.6354	0.081286	-0.000844	1.40E-05	0.000294	0.006472
41	9.9	718.3	-7.5	13.18	0.3	0.6531	0.098395	0.01263	-0.001293	-0.001031	0.008677
42	0.0234	0.002345	-8.4	-1.35	0.89	0.6382	0.099202	-0.000321	-0.000149	-0.000669	0.008772
41	10.5	715.7	-7.5	15	0.3	0.6516	0.120231	0.01555	-0.001463	-0.000865	0.011703
43	0.0248	0.002344	-8.8	-1.05	1.34	0.6358	0.121232	-0.000276	7.70E-05	-0.000382	0.011794
28	19.5	718.5	0	3.65	0.6	0.6735	0.019029	-0.000595	-9.70E-05	-0.000264	0.001419
12	0.0457	0.002338	-0.4	-1.84	0.41	0.644	0.019029	-0.000595	-9.70E-05	-7.30E-05	0.001419
28	19.6	718.3	0	6.02	0.8	0.6734	0.039694	-0.000637	0.000103	-0.000687	0.002146
13	0.046	0.002337	-0.9	-2.4	0.86	0.6438	0.039694	-0.000637	0.000103	-0.000155	0.002146
28	19.6	718.1	0	7.93	0.8	0.6732	0.059073	-0.000804	-5.80E-05	-0.001228	0.003195
14	0.0462	0.002337	-1	-2.59	1.02	0.6435	0.059073	-0.000804	-5.80E-05	-2.70E-05	0.003195
28	19.6	717.6	0	8.76	0.8	0.6723	0.068156	-0.000726	8.60E-05	-0.001349	0.003783
15	0.0456	0.002336	-1.2	-2.59	1.19	0.6429	0.068156	-0.000726	8.60E-05	-0.000214	0.003783
28	19.3	718.1	0	9.72	0.8	0.6724	0.078511	-0.00083	8.50E-05	-0.00162	0.004551
16	0.0454	0.002335	-1.3	-2.63	1.32	0.6432	0.078511	-0.00083	8.50E-05	-0.000144	0.004551
28	19.3	718.6	0	11.52	0.7	0.6728	0.098636	-0.000895	0.000117	-0.002198	0.00639
17	0.0454	0.002334	-1.6	-2.72	1.62	0.6436	0.098636	-0.000895	0.000117	-0.000288	0.00639
28	19.2	718.2	0	13.15	0.6	0.6722	0.117582	-0.000938	7.40E-05	-0.002571	0.008951
18	0.0452	0.002333	-2.1	-2.64	2.05	0.6431	0.117582	-0.000938	7.40E-05	-0.000322	0.008951

RUN POINT	VKTS V/OR	VTIP RHO	ALPHA ALPHACP	COLL AIS	L/DR B1S	MAT MTIP	CLRHS CLRHS/S	CXRHS CXRH/S	CMXHS CMXHS/S	CYRH/S CYRH/S	CMZH/S CMZH/S CP/S
22	19.4	717.7	-5	9.18	0.8	0.672	0.068893	0.004665	-0.000524	-0.002016	0.00421
19	0.0455	0.002344	-6	-2.35	1.04	0.6427	0.069038	-0.001357	-0.000156	-0.000193	0.00424
34	19.7	717.4	-5	4.31	0.5	0.6704	0.019386	0.000357	-0.000328	-0.000794	0.001642
31	0.0463	0.002369	-5.2	-1.78	0.2	0.6407	0.019343	-0.001334	-0.000183	0.000227	0.001665
34	19.3	716.4	-5	6.45	0.8	0.6685	0.038959	0.001999	-0.000131	-0.0011	0.002432
32	0.0454	0.002367	-5.5	-2.14	0.5	0.6395	0.038985	-0.001404	8.10E-05	-0.000142	0.002434
34	19.4	718.6	-5	8.39	0.8	0.6706	0.058559	0.003639	-0.00028	-0.001405	0.003509
33	0.0457	0.002366	-5.7	-2.24	0.75	0.6413	0.058952	-0.001504	2.70E-05	-0.000159	0.00352
34	19.4	715.8	-5	9.28	0.8	0.6679	0.069431	0.004495	-0.000415	-0.001612	0.004244
34	0.0457	0.002366	-5.9	-2.24	0.9	0.6388	0.069559	-0.001574	-4.40E-05	-0.000113	0.004264
34	19.7	718.9	-5	10.14	0.8	0.6711	0.079064	0.005313	-0.000365	-0.001745	0.005026
35	0.0462	0.002365	-6.1	-2.24	1.06	0.6415	0.079226	-0.001598	7.50E-05	-0.000157	0.005038
34	19.3	716.4	-5	10.94	0.7	0.6682	0.088603	0.00596	-0.00034	-0.001757	0.005864
36	0.0454	0.002365	-6.1	-2.24	1.12	0.6391	0.088785	-0.001784	0.000172	-1.80E-05	0.005871
34	19.6	716.8	-5	11.75	0.7	0.669	0.09876	0.006814	-0.000528	-0.002044	0.006869
37	0.0462	0.002364	-6.3	-2.35	1.27	0.6394	0.098978	-0.00182	7.20E-05	-9.80E-05	0.006889
34	19.2	718.6	-5	13.53	0.6	0.6699	0.119086	0.008521	-0.000862	-0.002481	0.009621
38	0.0451	0.002364	-6.5	-2.46	1.49	0.641	0.119375	-0.00189	-2.0E-05	-0.000244	0.00966
41	19.3	718.5	-7.5	4.5	0.6	0.6675	0.020479	0.00155	-2.0E-06	-0.000772	0.001732
30	0.0453	0.002345	-8.1	-1.69	0.56	0.6386	0.020506	-0.001136	0.000224	-0.000561	0.001718
41	19.4	714.9	-7.5	6.53	0.8	0.6643	0.038548	0.003843	7.0E-06	-0.000966	0.002492
31	0.0457	0.002344	-8.1	-1.82	0.57	0.6352	0.03872	-0.001222	0.000333	-0.000375	0.00247

RUN POINT	VKTS V/OR	VTIP RHO	ALPHA ALPHCP	COLL A1S	L/DR B1S	MAT MTIP	CLRHS CLRHS/S	CXRHS CXRH/S	CMXHS CMXHS/S	CYRH/S CYRH/S	CMZH/S CMZH/S CP/S
41 32	19.7 0.0465	715.4 0.002344	-7.5 -8.3	8.44 -1.98	0.8 0.76	0.6652 0.6356	0.058773 0.059103	0.006379 0.001347	-0.000296 0.000178	-0.001351 0.000197	0.003614 0.003621
41 33	19.8 0.0465	718 0.002345	-7.5 -8.4	9.39 -1.99	0.8 0.89	0.6677 0.6348	0.068828 0.069239	0.007663 0.001386	-0.000273 0.000299	-0.001411 0.000193	0.00436 0.004358
41 34	19.8 0.0466	716.2 0.002345	-7.5 -8.5	10.21 -1.98	0.8 1.03	0.6661 0.6364	0.078435 0.078931	0.00894 0.001375	-0.000224 0.000446	-0.001508 0.000216	0.005114 0.005099
41 35	19.8 0.0466	717.3 0.002345	-7.5 -8.8	11.89 -2.16	0.7 1.32	0.6671 0.6374	0.098472 0.099137	0.011548 0.001404	-0.000474 0.000445	-0.001864 0.00041	0.00701 0.007012
41 36	19.4 0.0457	715.4 0.002344	-7.5 -9.4	13.62 -2.15	0.6 1.88	0.6647 0.6356	0.118753 0.119652	0.014671 0.000955	-0.000632 0.000636	-0.001981 0.000885	0.009677 0.009676
17 5	29.4 0.0691	718 0.002417	0 -0.4	3.45 -1.68	1 0.37	0.6902 0.6456	0.021211 0.021211	-0.000713 -0.000717	-9.60E-05 -9.60E-05	-0.000539 -0.000191	0.001373 0.001373
17 6	29.6 0.0698	717 0.002412	0 -0.8	5.34 -2.09	1.4 0.75	0.689 0.644	0.039274 0.039274	-0.000648 -0.000655	0.000217 0.000217	-0.000815 -0.000295	0.001869 0.001869
17 7	29.7 0.0698	716.8 0.002411	0 -1.1	7.24 -2.69	1.5 1.1	0.6885 0.6436	0.058915 0.058915	-0.000795 -0.000805	0.000284 0.000284	-0.001333 -8.60E-05	0.002751 0.002751
17 8	29.7 0.0697	717.9 0.002409	0 -1.3	8.24 -2.9	1.4 1.3	0.6893 0.6443	0.068875 0.068875	-0.000795 -0.000807	0.000408 0.000408	-0.001585 -0.000111	0.003343 0.003343
17 9	29.7 0.0697	718.3 0.002407	0 -1.5	9.21 -3.18	1.3 1.49	0.6895 0.6446	0.078894 0.078894	-0.000847 -0.00086	0.000235 0.000236	-0.002095 -0.000132	0.004058 0.004058
17 10	29.7 0.0699	716.3 0.002406	0 -2.1	11.02 -3.42	1.2 2.1	0.6876 0.6427	0.09951 0.09509	-0.000899 -0.000916	0.000508 0.000509	-0.002804 -0.000139	0.005771 0.005771

RUN POINT	VKTS V/OR	VTIP RHO	ALPHA ALPHACP	COLL AIS	L/DR B1S	MAT MTIP	CLRHS CLRHS/S	CXRHS CXRHS/S	CMXHS CMXHS/S	CYRH/S CYRH/S	CMZH/S CP/S
17	29.5	716.6	0	12.64	1	0.6874	0.118981	-0.000653	0.000497	-0.003797	0.007902
11	0.0695	0.002405	-2.8	-3.67	2.78	0.6427	0.118981	-0.000674	0.000498	-0.000304	0.007902
28	30.2	717.3	0	8.19	1.4	0.6877	0.067748	-0.000767	-0.000137	-0.001482	0.003333
19	0.071	0.00233	-1.4	-3.04	1.44	0.6422	0.067748	-0.000767	-0.000137	-0.000404	0.003333
14	30.1	717.5	-5	8.42	1.5	0.6888	0.067572	0.005292	0.000206	-0.001174	0.003672
6	0.0709	0.002393	-6.2	-2.44	1.23	0.6432	0.067776	-0.000617	0.000526	-0.000179	0.00364
15	29.9	717.6	-5	8.61	1.5	0.6918	0.070068	0.00541	0.000157	-0.0011396	0.003794
5	0.0704	0.002421	-6.4	-2.53	1.4	0.6463	0.070273	-0.000718	0.000487	-0.000443	0.003766
15	29.6	717.8	-5	3.93	1	0.6888	0.02052	0.001277	-1.90E-05	-0.000677	0.001518
26	0.0696	0.002402	-5.2	-1.47	0.17	0.6439	0.020553	-0.000517	0.000113	0.000121	0.001514
15	29.7	715.8	-5	5.88	1.4	0.6869	0.038731	0.002804	0.000148	-0.000939	0.00215
27	0.0701	0.002401	-5.6	-1.86	0.55	0.642	0.038828	-0.000582	0.000335	5.30E-05	0.002129
15	30	717.1	-5	7.73	1.5	0.6885	0.058461	0.004431	9.70E-05	-0.001378	0.003165
28	0.0706	0.0024	-6	-2.3	0.98	0.6431	0.058625	-0.000681	0.000373	-4.50E-05	0.003144
15	30	717.2	-5	8.63	1.4	0.6885	0.068206	0.005173	7.0E-06	-0.001623	0.00375
29	0.0706	0.002399	-6.2	-2.5	1.16	0.6431	0.068397	-0.000791	0.000334	5.0E-06	0.003735
15	30.1	717.8	-5	9.56	1.4	0.6892	0.07881	0.006202	-4.60E-05	-0.0011939	0.004531
30	0.0708	0.002399	-6.5	-2.62	1.48	0.6436	0.079051	-0.00069	0.000349	-0.000356	0.004518
15	30.1	718.7	-5	11.26	1.2	0.6899	0.098981	0.007772	-9.30E-05	-0.002485	0.006273
31	0.0706	0.002399	-6.9	-2.86	1.88	0.6444	0.099282	-0.000884	0.000454	-0.00019	0.006257
15	30.3	719.9	-5	12.95	1.1	0.6912	0.118202	0.009975	8.0E-06	-0.002942	0.008605
32	0.071	0.002399	-7.7	-2.95	2.73	0.6454	0.118622	-0.000365	0.000758	-0.000573	0.008572

RUN POINT	VKTS V/OR	VTIP RHO	ALPHA ALPHCP	COLL A1S	L/DR B1S	MAT MTIP	CLRHS CLRHS/S	CXRHS CXRHS/S	CMXHS CMXHS/S	CYRH/S CYRH/S	CMZH/S CMZH/S CP/S
21 5	29.9 0.0704	717.4 0.002366	-5 5.5	3.89 -1.38	1 0.52	0.6914 0.6459	0.019943 0.019955	0.00101 -0.000732	-7.60E-05 5.50E-05	-0.000184 -0.000335	0.0015 0.001501
21 6	30.2 0.0711	716.9 0.002357	-5 -5.8	5.85 -1.95	1.4 0.76	0.6904 0.6446	0.039098 0.039181	0.002657 -0.000761	-0.000262 -7.30E-05	-0.000561 -0.00026	0.002152 0.002166
21 7	30.3 0.0713	716.5 0.002354	-5 -6.1	7.77 -2.37	1.5 1.1	0.6898 0.6439	0.059216 0.059369	0.004331 -0.000846	-0.000278 -2.0E-06	-0.001059 -0.000101	0.003155 0.003167
21 8	30.3 0.0715	716.7 0.002352	-5 -6.3	8.63 -2.56	1.4 1.28	0.6898 0.6438	0.068734 0.068916	0.005097 -0.000913	-0.000297 3.30E-05	-0.001304 9.40E-05	0.003765 0.003776
21 9	30.3 0.0713	717.4 0.002351	-5 -6.5	9.52 -2.72	1.4 1.52	0.6897 0.6441	0.078769 0.079001	0.006098 -0.00079	-0.000387 6.0E-06	-0.001678 -0.000168	0.004496 0.004513
21 10	30.5 0.0717	717.1 0.00235	-5 -6.9	11.2 -3	1.3 1.94	0.6897 0.6436	0.098839 0.099129	0.007649 -0.000994	-0.000543 -1.0E-06	-0.00237 -0.00011	0.006191 0.006214
21 11	30.5 0.0718	718.2 0.002347	-5 -7.5	12.82 -3.29	1.1 2.5	0.6907 0.6444	0.119043 0.119391	0.009186 -0.001224	-0.000815 -7.80E-05	-0.003248 -3.50E-05	0.008418 0.008457
40 5	29.9 0.0703	718.1 0.002415	-7.5 -7.9	4.19 -1.27	0.9 0.44	0.6913 0.6459	0.018271 0.018317	0.001554 -0.000845	-0.000243 -4.40E-05	-7.0E-05 -0.000373	0.001513 0.001532
40 6	29.9 0.0704	717.5 0.002407	-7.5 -8.2	6.11 -1.84	1.4 0.7	0.6897 0.6443	0.038085 0.038293	0.004088 -0.000918	-0.000419 -4.40E-05	-0.000241 -0.00013	0.002182 0.002218
40 7	30.1 0.0708	717.8 0.002403	-7.5 -8.5	7.97 -2.21	1.5 1.01	0.6897 0.6441	0.059546 0.05992	0.00677 -0.00106	-0.000263 0.000162	-0.000791 -0.000117	0.003232 0.003239
40 8	30.2 0.0711	718.1 0.002401	-7.5 -8.7	8.88 -2.33	1.4 1.22	0.6899 0.6441	0.068123 0.068573	0.007911 -0.001049	-0.000544 -3.20E-05	-0.001045 -0.000292	0.003883 0.003921

RUN POINT	VKTS V/OR	VTIP RHO	ALPHA ALPHACP	COLL AIS	L/DR B1S	MAT MTIP	CLRHS CLRHS/S	CXRHS CXRHS/S	CMXHS CMXHS/S	CYRH/S CYRH/S	CMZH/S CPS
40 9	30.3 0.0712	717.1 0.0024	-7.5 -8.9	9.76 -2.55	1.4 1.45	0.6888 0.643	0.078418 0.078948	0.009197 -0.001117	-0.000614 -3.0E-06	-0.001342 -0.000228	0.004644 0.004684
40 10	30.4 0.0716	716.9 0.002399	-7.5 -9.1	10.6 -2.63	1.3 1.63	0.6887 0.6426	0.088804 0.089409	0.01045 -0.001231	-0.000661 6.0E-05	-0.001593 -9.90E-05	0.005475 0.005515
40 11	30.5 0.0721	715.4 0.002398	-7.5 -9.4	11.53 -2.77	1.3 1.89	0.6873 0.6412	0.099783 0.100478	0.01186 0.001265	-0.000813 3.80E-05	-0.001989 -0.000172	0.006472 0.006523
40 12	30.5 0.0719	717.5 0.002396	-7.5 -9.9	13.03 -3.01	1.1 2.42	0.6891 0.6429	0.118825 0.119692	0.014429 -0.001204	-0.001113 5.0E-06	-0.002769 -0.000283	0.00862 0.008693
16 6	29.8 0.07	717.5 0.002394	-10 -10.4	4.46 -1.36	0.9 0.35	0.6875 0.6426	0.01889 0.019073	0.002704 -0.000617	-0.000426 -0.000148	-0.000327 -0.000118	0.001563 0.001613
16 7	30.1 0.0708	716.6 0.00239	-10 -10.7	6.29 -1.62	1.4 0.7	0.6866 0.6412	0.038652 0.039145	0.006223 -0.000583	-0.000172 -0.000242	-0.000472 -0.000383	0.002366 0.00236
16 8	30.3 0.0713	716.7 0.002388	-10 -10.9	8.18 -1.92	1.5 0.92	0.6868 0.641	0.05826 0.059028	0.009521 -0.000737	-0.00044 0.000161	-0.000796 -1.50E-05	0.003425 0.003449
16 9	30.3 0.0714	717.7 0.002386	-10 -11.1	9 -2.09	1.5 1.1	0.6876 0.6418	0.067457 0.068368	0.011146 -0.000737	-0.000597 0.000113	-0.001025 2.30E-05	0.004036 0.004078
16 10	30.3 0.0713	718.7 0.002386	-10 -11.4	9.92 -2.19	1.4 1.4	0.6884 0.6426	0.077623 0.078712	0.013064 -0.00614	-0.000658 0.000188	-0.001213 -0.000137	0.004816 0.004857
16 11	30.6 0.072	718.2 0.002385	-10 -12	11.6 -2.39	1.3 1.98	0.6883 0.6421	0.097639 0.099086	0.016879 -0.00332	-0.000694 0.000476	-0.001596 -0.000425	0.006678 0.006697
16 12	30.9 0.0727	717 -0.002384	-10 -12.7	13.25 -2.4	1.1 2.66	0.6875 0.6409	0.116484 0.118271	0.020478 -6.0E-05	-0.000915 -0.000671	-0.001862 -0.000486	0.009054 0.009075

RUN	VKTS POINT	VTIP V/OR	ALPHA ALPHCP	COLL A1S	L/DR B1S	MAT MTIP	CLRHS/S	CXRHS/S	CMXHS/S	CYRH/S	CMZH/S
18	29.7	716.8	-15	4.95	1.1	0.6876	0.02164	0.005081	6.0E-05	-0.000173	0.001837
8	0.07	0.0024	-15.3	-0.94	0.31	0.6426	0.02217	-0.000693	0.000534	4.50E-05	0.001758
18	30	716.1	-15	6.76	1.5	0.6868	0.038957	0.009787	-0.000294	-0.000361	0.002579
9	0.0708	0.002395	-15.7	-1.37	0.72	0.6414	0.040163	-0.000629	0.000383	-0.000395	0.002567
18	30.3	716.6	-15	8.6	1.5	0.6874	0.058199	0.014857	-0.001001	-0.000801	0.003652
10	0.0714	0.002393	-16	-1.75	0.96	0.6416	0.060061	-0.000712	-2.20E-05	-0.000219	0.003787
18	30.5	717.8	-15	9.52	1.5	0.6886	0.067932	0.017473	-0.001133	-0.000937	0.004376
11	0.0718	0.002392	-16.2	-1.84	1.18	0.6425	0.07014	-0.000704	3.80E-05	-0.000168	0.00452
18	30.6	717.6	-15	10.32	1.4	0.6883	0.077116	0.019949	-0.001301	-0.001092	0.005136
12	0.0719	0.002391	-16.4	-1.93	1.38	0.6421	0.079652	-0.00069	7.20E-05	-0.000169	0.005298
18	30.9	716.7	-15	11.97	1.3	0.6878	0.096613	0.025145	-0.001852	-0.001628	0.006981
13	0.0727	0.00239	-16.8	-2.17	1.81	0.6412	0.099829	-0.000717	1.80E-05	-0.000178	0.007223
18	31.3	716.4	-15	13.77	1.1	0.6879	0.115163	0.030933	-0.00212	-0.001668	0.00958
14	0.0737	0.002388	-17.7	-1.96	2.7	0.6407	0.119245	7.30E-05	0.000432	-0.000513	0.009802
28	44.8	715.7	0	3.07	1.5	0.7085	0.019292	-0.000813	0.000125	-3.20E-05	0.001303
20	0.1056	0.002327	-0.4	-0.99	0.36	0.6409	0.019292	-0.000813	0.000125	-0.000181	0.001303
28	44.8	717.2	0	4.65	2.4	0.7099	0.038449	-0.00082	5.20E-05	-0.000244	0.001574
21	0.1054	0.002327	-0.7	-1.41	0.71	0.6422	0.038449	-0.00082	5.20E-05	-2.80E-05	0.001574
28	44.8	718	0	6.38	2.7	0.7106	0.058391	-0.00076	9.50E-05	-0.000653	0.002188
22	0.1054	0.002327	-1.2	-1.94	1.18	0.6429	0.058391	-0.00076	9.50E-05	-0.000303	0.002188
28	44.9	716.6	0	7.26	2.7	0.7094	0.068396	-0.000827	8.0E-05	-0.000924	0.0026
23	0.1056	0.002326	-1.4	-2.2	1.45	0.6416	0.068396	-0.000827	8.0E-05	-0.000187	0.0026

RUN POINT	VKTS V/OR	VTIP RHO	ALPHA ALPHCP	COLL AIS	L/DR B1S	MAT MTP	CLRHS CLRHS/S	CXRHS CXRHS/S	CMXHS CMXHS/S	CYRH/S CMYH/S	CMZH/S CPS/S
28	45	717.5	0	8.17	2.6	0.7102	0.078277	-0.000799	-1.10E-05	-0.001315	0.003078
24	0.1058	0.002325	-1.8	-2.45	1.78	0.6423	0.078277	-0.000799	-1.10E-05	-9.40E-05	0.003078
28	45.1	718.7	0	9.91	2.4	0.7113	0.098996	-0.00081	3.80E-05	-0.002165	0.004328
25	0.1059	0.002325	-2.4	-2.97	2.41	0.6432	0.098996	-0.00081	3.80E-05	-0.000178	0.004328
28	45.2	717.8	0	11.58	2.1	0.7105	0.118872	-0.000872	1.40E-05	-0.003288	0.005986
26	0.1063	0.002324	-3	-3.6	3.02	0.6422	0.118872	-0.000872	1.40E-05	-0.000251	0.005986
22	44.8	717.7	-5	8.34	2.4	0.7111	0.069196	0.004435	-0.000288	-0.00174	0.003481
18	0.1054	0.002342	-6.4	-2.22	1.44	0.6432	0.069319	-0.001613	1.60E-05	-3.80E-05	0.003493
34	45	717.2	-5	4.09	1.5	0.7124	0.020249	0.000855	4.10E-05	-4.70E-05	0.001495
7	0.106	0.002392	-5.4	-0.93	0.43	0.6441	0.020247	-0.000913	0.000171	-0.000313	0.001486
34	45.1	715.7	-5	5.71	2.4	0.7105	0.039677	0.002568	-0.00026	-0.000385	0.002006
8	0.1064	0.002387	-5.8	-1.5	0.78	0.6422	0.03975	-0.0009	-8.40E-05	-0.000215	0.002021
34	45.3	717.5	-5	7.46	2.7	0.7112	0.059087	0.004267	-8.0E-05	-0.000695	0.002787
9	0.1066	0.002385	-6.3	-1.84	1.27	0.6435	0.059234	-0.000899	0.000163	-8.0E-05	0.002783
34	45.4	715.6	-5	8.35	2.7	0.711	0.069658	0.00533	-0.000341	-0.001162	0.003349
10	0.1071	0.002381	-6.6	-2.18	1.56	0.6413	0.069857	-0.000762	-4.70E-05	-0.000185	0.003366
34	45.4	717.8	-5	9.21	2.6	0.7119	0.079135	0.006107	-0.000252	-0.001351	0.003937
11	0.1068	0.00238	-6.8	-2.29	1.8	0.6432	0.079366	-0.000813	9.30E-05	-8.80E-05	0.003944
34	45.5	718.1	-5	10.05	2.4	0.7121	0.089131	0.006925	-0.000384	-0.001777	0.004619
12	0.107	0.002379	-7.1	-2.53	2.09	0.6433	0.089395	-0.000869	2.0E-05	-1.80E-05	0.004635
34	45.7	717.7	-5	10.84	2.3	0.7118	0.098931	0.008002	-0.000552	-0.002305	0.005386
13	0.1074	0.002378	-7.5	-2.84	2.52	0.6428	0.099252	-0.000651	-8.10E-05	-0.000399	0.005414

RUN	VKTS POINT	VTIP V/OR	RHO	ALPHAB ALPHCP	COLL A1S	L/DR B1S	MAT MTIP	CLRHS/S CLRHS	CXRHS/S CXRHS	CMXHS/S CMXHS	CYRH/S CMYH/S	CMZH/S CP/S
34	45.2	718	-5	12.41	2	0.7112	0.117993	0.009479	-0.000788	-0.003358	0.00723	
14	0.1063	0.002376	-8.1	-3.28	3.08	0.6429	0.11837	-0.000841	-0.000155	-0.000301	0.007271	
40	44.7	717	-7.5	4.43	1.5	0.7101	0.019943	0.001716	-0.000236	8.30E-05	0.00158	
13	0.1053	0.002392	-7.9	-0.92	0.36	0.6425	0.019997	-0.000902	-2.80E-05	-3.10E-05	0.001597	
40	44.9	717.1	-7.5	6.13	2.3	0.7104	0.03894	0.004236	-0.000223	-0.000127	0.002194	
14	0.1057	0.002392	-8.3	-1.34	0.8	0.6425	0.039159	-0.000882	6.60E-05	-0.000211	0.002204	
40	45.1	718.5	-7.5	7.86	2.6	0.7112	0.058898	0.006798	-0.000396	-0.000513	0.00311	
15	0.106	0.002392	-8.8	-1.73	1.28	0.6437	0.059281	-0.000948	1.40E-05	-4.50E-05	0.003135	
40	45.2	716.7	-7.5	8.74	2.6	0.7105	0.068792	0.00819	-0.00044	-0.000781	0.003714	
16	0.1064	0.002392	-9.1	-1.94	1.61	0.6422	0.069272	-0.000859	4.90E-05	-0.000294	0.00374	
40	45.3	717	-7.5	9.57	2.5	0.7109	0.078826	0.009455	-0.000473	-0.001042	0.004346	
17	0.1066	0.002392	-9.4	-2.11	1.9	0.6424	0.079386	-0.000915	9.80E-05	-0.000189	0.004371	
40	45.4	716	-7.5	10.42	2.4	0.7102	0.088733	0.010743	-0.000624	-0.001435	0.005102	
18	0.1071	0.002391	-9.7	-2.34	2.23	0.6415	0.089377	-0.000931	4.70E-05	-0.000223	0.00514	
40	45.4	715.4	-7.5	11.26	2.3	0.7096	0.099528	0.012255	-0.000713	-0.001904	0.005934	
19	0.1072	0.002391	-10.1	-2.54	2.61	0.6409	0.100276	-0.00084	6.80E-05	-0.00035	0.005977	
40	45.4	718.4	-7.5	12.9	2	0.7126	0.118616	0.014694	-0.001082	-0.002904	0.008034	
20	0.1073	0.002391	-10.9	-2.95	3.37	0.6435	0.119519	-0.000914	-2.40E-05	-0.000205	0.008106	
17	59.8	717	0	3.14	2	0.734	0.02002	-0.000719	-0.000204	-0.000435	0.001282	
12	0.1408	0.002397	-0.4	-0.98	0.39	0.6434	0.02002	-0.000722	-0.000203	-0.000249	0.001282	
17	59.9	716.3	0	4.61	3.4	0.7335	0.039342	-0.000644	0.000115	-0.000579	0.001521	
13	0.1412	0.002397	-0.9	-1.15	0.89	0.6427	0.039342	-0.000651	0.000115	-0.000117	0.001521	

RUN POINT	VKTS V/OR	VTIP RHO	ALPHA ALPHCP	COLL A1S	L/DR B1S	MAT MTIP	CLRHS CLRHS/S	CXRHS CXRHS/S	CMXHS CMXHS/S	CYRH/S CYRH/S	CMZH/S CMZH/S
17	60.1	718.5	0	6.23	4.1	0.7356	0.059345	-0.000478	0.000172	-0.000878	0.001991
14	0.1411	0.002397	-1.5	-1.49	1.47	0.6447	0.059345	-0.000488	0.000172	-0.000244	0.001991
17	60.1	717.7	0	6.97	4.1	0.735	0.067678	-0.000408	0.000112	-0.001119	0.002278
15	0.1414	0.002396	-1.7	-1.71	1.71	0.6439	0.067678	-0.00042	0.000112	-0.000188	0.002278
17	60.1	720.8	0	7.89	3.9	0.7376	0.078345	-0.000284	0.000266	-0.001316	0.002763
16	0.1407	0.002396	-2.2	-1.84	2.15	0.6466	0.078345	-0.000298	0.000267	-0.000264	0.002763
17	60.2	717.5	0	9.57	3.7	0.7347	0.099378	-6.50E-05	0.000303	-0.002012	0.003833
17	0.1415	0.002396	-3	-2.27	2.96	0.6436	0.099378	-8.30E-05	0.000304	-0.000354	0.003833
17	60.2	716.6	0	11.21	3.2	0.7338	0.119193	0.000469	0.000593	-0.002746	0.00527
18	0.1417	0.002395	-3.9	-2.59	3.89	0.6427	0.119193	0.000448	0.000594	-0.000752	0.00527
28	60	717.7	0	6.92	4.1	0.7329	0.068855	-0.00092	-6.40E-05	-0.00091	0.002258
27	0.1412	0.002318	-1.6	-1.71	1.61	0.6422	0.068855	-0.00092	-6.40E-05	2.20E-05	0.002258
14	60.1	717.9	-5	8.21	3.9	0.734	0.069594	0.005559	-0.000183	-0.000928	0.003287
7	0.1414	0.002381	-6.9	-1.6	1.85	0.6434	0.069813	-0.000528	0.000104	-3.80E-05	0.00329
15	60.1	717.4	-5	8.09	3.8	0.7368	0.068072	0.00499	-0.000633	-0.001181	0.003183
6	0.1413	0.002406	-6.8	-1.78	1.79	0.6456	0.068248	-0.000961	-0.000353	-0.000175	0.003226
15	59.7	717.2	-5	4.15	1.9	0.7345	0.018894	0.000934	0.000189	-0.000629	0.001559
19	0.1406	0.002397	-5.4	-0.7	0.43	0.644	0.018904	-0.000716	0.000324	-0.000415	0.001536
15	59.9	717.3	-5	5.75	3.3	0.7348	0.039031	0.002669	-2.0E-06	-0.000809	0.002035
20	0.1411	0.002396	-5.9	-1.05	0.89	0.644	0.039115	-0.000743	0.000175	-8.10E-05	0.002027
15	60.1	717.8	-5	7.31	3.8	0.7354	0.058273	0.004342	3.80E-05	-0.001083	0.002778
21	0.1412	0.002397	-6.5	-1.35	1.47	0.6444	0.05843	-0.000753	0.00028	7.0E-06	0.002764

RUN	VKTS V/OR	VTIP RHO	ALPHA ALPHCP	COLL A1S	L/DR B1S	MAT MTIP	CLRHS/S	CXRHS/S	CMXHS/S	CYRH/S CMYH/S	CMZH/S CP/S
15	60.1 0.1413	718.3 0.002396	-5 -6.8	8.12 -1.45	3.8 1.85	0.736 0.6449	0.067785 0.067985	0.005253 -0.000675	0.000149 -0.000433	-0.001211 -0.000111	0.003267 0.003241
22	60.2 0.1419	716.6 0.002395	-5 -7.2	9.03 -1.7	3.8 2.24	0.7347 0.6434	0.078176 0.078426	0.006273 -0.000564	6.0E-06 0.000341	-0.001528 -0.000312	0.003849 0.003834
15	60.3 0.1417	718.5 0.002395	-5 -8	10.65 -2.08	3.5 3.03	0.7365 0.645	0.098232 0.098576	0.00824 -0.000353	-9.20E-05 0.000362	-0.002197 -0.00049	0.005197 0.005185
24	60.4 0.1422	716.6 0.002396	-5 -9.4	12.4 -2.26	3 4.42	0.7349 0.6434	0.118401 0.118886	0.01074 0.00038	0.000133 0.000761	-0.002816 -0.000874	0.007205 0.007166
22	60.1 0.1411	718.8 0.002359	-5 -5.3	4.13 -0.76	1.9 0.33	0.7388 0.6474	0.019371 0.019337	0.000457 -0.001233	-0.000198 -6.60E-05	2.90E-05 7.0E-06	0.001502 0.001513
5	60.2 0.1416	717.6 0.002354	-5 -5.9	5.72 -1.06	3.3 0.92	0.7371 0.6457	0.039289 0.039339	0.002288 -0.001145	-0.000238 -6.10E-05	-0.000264 -8.90E-05	0.002011 0.002024
22	60.4 0.142	717.6 0.002351	-5 -6.6	7.44 -1.43	3.8 1.62	0.737 0.6453	0.059669 0.059806	0.004182 -0.001034	-0.000277 -3.0E-05	-0.000668 -0.000184	0.002823 0.002836
7	60.4 0.142	718.7 0.002349	-5 -6.9	8.21 -1.6	3.8 1.93	0.7377 0.646	0.068809 0.068988	0.005065 -0.000952	-0.000298 -1.20E-05	-0.000971 -0.000174	0.003271 0.003284
22	60.4 0.1423	716.9 0.002348	-5 -7.3	9.04 -1.84	3.7 2.29	0.7358 0.6442	0.078642 0.078859	0.005926 -0.000951	-0.000305 2.90E-05	-0.001264 -0.000226	0.00382 0.003832
9	60.6 0.1429	715.8 0.002346	-5 -8.1	10.68 -2.2	3.5 3.09	0.7349 0.643	0.098767 0.099064	0.007725 -0.000912	-0.000454 -3.0E-06	-0.00206 -0.0001	0.005158 0.005178
22	59.8 0.141	716.3 0.002386	-7.5 -7.9	4.75 -0.81	1.9 0.43	0.7323 0.6419	0.019539 0.019585	0.001631 -0.000934	-0.000361 -0.000145	3.10E-05 -0.000347	0.001633 0.001666

RUN POINT	VKTS V/OR	VTIP RHO	ALPHA ALPHCP	COLL A1S	L/DR B1S	MAT MTP	CLRHS CLRHS/S	CXRHS CXRHS/S	CMXHS CMXHS/S	CYRH/S CYRH/S	CMZH/S CMZH/S CP/S
40 22	60.1 0.1412	718.2 0.002386	-7.5 -8.5	6.42 -0.99	3.2 0.99	0.7344 0.6435	0.039307 0.039525	0.004243 -0.000924	-0.000334 -3.20E-05	-0.000119 -9.90E-05	0.002291 0.002315
40 23	59.9 0.1411	717.6 0.002386	-7.5 -9.1	8.04 -1.34	3.7 1.62	0.7336 0.643	0.05875 0.059142	0.006857 -0.00087	-0.00042 -3.0E-06	-0.00043 -9.30E-05	0.003165 0.003193
40 24	60.1 0.1411	718.9 0.002387	-7.5 -9.5	8.79 -1.52	3.7 2	0.735 0.6442	0.067309 0.067796	0.008139 -0.000716	-0.000484 0	-0.000484 -0.000448	0.00367 0.003702
40 25	60.2 0.1417	716.7 0.002386	-7.5 -9.8	9.7 -1.69	3.7 2.3	0.7331 0.6421	0.079794 0.080356	0.009538 -0.000959	-0.000564 9.0E-06	-0.000949 -3.90E-05	0.004357 0.004394
40 26	60.1 0.1416	717 0.002387	-7.5 -10.2	10.46 -1.86	3.6 2.7	0.7333 0.6424	0.088176 0.088841	0.010871 -0.000731	-0.000654 5.0E-06	-0.001263 -0.000346	0.005003 0.005046
40 27	60.2 0.1416	717.6 0.002386	-7.5 -10.9	11.32 -2.08	3.4 3.35	0.7339 0.6429	0.099143 0.099942	0.012625 -0.000424	-0.000733 4.40E-05	-0.0017 -0.000759	0.005904 0.005949
40 28	60.4 0.142	718.2 0.002386	-7.5 -11.8	12.92 -2.43	3 4.3	0.7348 0.6434	0.118963 0.119978	0.015572 -8.90E-05	-0.000986 4.10E-05	-0.002728 -0.000877	0.007808 0.00787
16 13	59.8 0.1405	717.8 0.002377	-10 -10.4	5.1 -0.74	1.9 0.37	0.7322 0.642	0.018614 0.018774	0.00255 -0.000721	-0.000485 -0.000187	4.30E-05 -8.20E-05	0.001672 0.001731
16 14	60 0.1413	717.1 0.002377	-10 -10.9	6.75 -0.94	3.3 0.92	0.732 0.6413	0.038405 0.038877	0.00608 -0.000681	-0.000451 -1.90E-05	-0.00138 -5.20E-05	0.002449 0.002449
16 15	60.2 0.1413	718.7 0.002377	-10 -11.7	8.4 -1.2	3.8 1.69	0.7336 0.6428	0.058219 0.059032	0.009774 -0.000484	-0.000434 0.000183	-0.000394 -0.000358	0.003515 0.003537
16 16	60.2 0.1418	716.5 0.002377	-10 -12	9.2 -1.5	3.8 2.01	0.7316 0.6407	0.068048 0.068998	0.011425 -0.000565	-0.000841 -0.000121	-0.000767 -0.000281	0.004069 0.004153

RUN	VKTS POINT	VTIP V/OR	ALPHA ALPHCP	COLL A1S	L/DR B1S	MAT MTIP	CLRHS/S	CXRHS/S	CMXHS/S	CYRH/S CMYH/S	CMZH/S CP/S
16	60.4	717.5	-10	10.06	3.7	0.7329	0.077304	0.013073	-0.000829	-0.000947	0.004764
17	0.1421	0.002377	-12.3	-1.59	2.33	0.6417	0.078399	-0.000549	1.0E-05	-0.000362	0.004836
16	60.6	716.9	-10	11.68	3.5	0.7326	0.098379	0.016809	-0.001132	-0.001665	0.006344
18	0.1427	0.002377	-13.1	-1.96	3.12	0.6412	0.099804	-0.000529	-1.30E-05	-0.000328	0.006444
16	60.6	716.9	-10	13.23	3	0.7327	0.118177	0.020096	-0.001447	-0.002546	0.008279
19	0.1428	0.002377	-13.8	-2.37	3.82	0.6411	0.119872	-0.00073	1.30E-05	-0.000214	0.008404
18	59.9	718.2	-15	6.11	1.9	0.7329	0.018373	0.004228	-0.000393	0.000104	0.00192
15	0.1407	0.00238	-15.7	-0.44	0.65	0.6425	0.018841	-0.000671	0.000117	-6.90E-05	0.001956
18	60	716.3	-15	7.74	3.3	0.7316	0.037888	0.009459	-0.000705	-7.60E-05	0.002887
16	0.1415	0.00238	-16.2	-0.72	1.21	0.641	0.039045	-0.00067	6.70E-05	-1.70E-05	0.002971
18	60.3	717.5	-15	9.37	3.8	0.733	0.056974	0.014581	-0.001009	-0.000326	0.004092
17	0.1418	0.00238	-16.8	-0.97	1.75	0.6419	0.058807	-0.000661	8.50E-05	-2.10E-05	0.004214
18	60.4	717.8	-15	10.22	3.8	0.7334	0.067318	0.017354	-0.001072	-0.000446	0.004873
18	0.142	0.00238	-17	-1.1	2.05	0.6422	0.069516	-0.000661	0.000226	-7.40E-05	0.004985
18	60.4	719	-15	11.02	3.6	0.7345	0.076809	0.019937	-0.00145	-0.000753	0.005643
19	0.1419	0.002379	-17.5	-1.25	2.46	0.6433	0.079352	-0.000622	6.0E-05	-0.000163	0.005826
18	60.6	717.1	-15	12.59	3.4	0.7331	0.096233	0.025504	-0.001544	-0.001004	0.007545
20	0.1427	0.002379	-18.3	-1.4	3.32	0.6415	0.099555	-0.000272	0.000461	-0.000407	0.007688
18	60.9	716.6	-15	14.08	3	0.7329	0.116218	0.030818	-0.002326	-0.001927	0.009676
21	0.1434	0.002379	-19.1	-1.87	4.07	0.641	0.120234	-0.000312	0.000258	-0.000318	0.009949
24	74.8	718.1	0	3.14	2.2	0.7588	0.019593	-0.001411	-8.0E-05	-0.000692	0.00129
18	0.1758	0.002355	-0.1	-0.75	0.08	0.6453	0.019593	-0.001411	-8.0E-05	-3.60E-05	0.00129

RUN POINT	VKTS V/OR	VTIP RHO	ALPHA ALPHCP	COLL AIS	L/DR BIS	MAT MTIP	CLRHS CLRHS/S	CXRHS CXRHS/S	CMXHS CMXHS/S	CYRH/S CYRH/S	CMZH/S CMYH/S	CP/S
24 19	74.8 0.1761	717.3 0.002356	0 -0.8	4.61 -0.97	4 0.81	0.7581 0.6446	0.039243 0.039243	-0.001376 -0.001376	-3.90E-05 -3.90E-05	-0.000873 7.0E-06	0.001467 0.001467	
24 20	74.9 0.1761	717.8 0.002355	0 -1.5	6.18 -1.27	4.9 1.47	0.7586 0.645	0.058368 0.058368	-0.001299 -0.001299	-2.40E-05 -2.40E-05	-0.001145 -0.000157	0.00188 0.00188	
24 21	74.9 0.1764	716.8 0.002355	0 -1.9	6.89 -1.4	5.1 1.87	0.7578 0.6442	0.067963 0.067963	-0.001168 -0.001168	-2.70E-05 -2.70E-05	-0.001358 -0.000446	0.002158 0.002158	
24 22	74.9 0.1762	717.9 0.002355	0 -2.2	7.69 -1.52	5.1 2.24	0.7587 0.6451	0.078719 0.078719	-0.001204 -0.001204	5.0E-06 5.0E-06	-0.001577 -0.000203	0.002488 0.002488	
24 23	75.1 0.1766	717.4 0.002355	0 -3.4	9.44 -1.71	4.8 3.4	0.7585 0.6446	0.099215 0.099215	-0.000725 -0.000725	0.000268 0.000268	-0.000241 -0.000523	0.003499 0.003499	
28 28	75.1 0.1766	718.1 0.002311	0 -1.9	6.83 -1.28	5.3 1.92	0.7561 0.6426	0.068103 0.068103	-0.001011 -0.001011	7.40E-05 7.40E-05	-0.000747 -2.80E-05	0.002089 0.002089	
22 17	75.2 0.1767	718.1 0.002333	-5 -7.2	8.49 -1.3	4.6 2.24	0.758 0.6442	0.069005 0.069125	0.004389 -0.001642	-0.000391 -9.40E-05	-0.001468 -0.000138	0.003398 0.003419	
34 15	75 0.1767	716.3 0.002367	-5 -5.3	4.59 -0.59	2.5 0.28	0.7554 0.6419	0.020204 0.020185	0.00067 -0.001093	-0.000214 -8.10E-05	-6.90E-05 0.000104	0.001515 0.001528	
34 16	75.2 0.1765	718.8 -6	-5 -0.8	6.09 1	4.1 1	0.7577 0.6441	0.039123 0.039117	0.002242 -0.001176	-0.000116 6.50E-05	-0.000257 7.30E-05	0.002073 0.002075	
34 17	75.2 0.1772	716.5 -6.8	-5 -0.8	7.64 -1.19	5 1.81	0.7556 0.6419	0.059006 0.059113	0.003999 -0.001159	-0.000461 -0.000217	-0.000713 -9.40E-05	0.002774 0.002804	
34 18	75.3 0.1779	714.9 0.002364	-5 -7.2	8.52 -1.24	5.1 2.24	0.7543 0.6404	0.070097 0.070259	0.00492 -0.001208	-0.000369 -8.10E-05	-0.000914 -8.50E-05	0.003297 0.003316	

RUN POINT	VKTS V/OR	VTIP RHO	ALPHA ALPHCP	COLL A1S	L/DR B1S	MAT MTP	CLRHS CLRHS/S	CXRHS CXRHS/S	CMXHS CMXHS/S	CYRH/S CYRH/S	CMZH/S CMZH/S
34 19	75.4 0.1773	718.1 0.002365	-5 -7.6	9.3 -1.33	5.1 2.6	0.7573 0.6432	0.079482 0.079683	0.005773 -0.001177	-0.000215 0.000115	-0.001042 -0.000216	0.003786 0.00379
34 20	75.4 0.1777	716.5 0.002363	-5 -8	10.09 -1.54	5 3.02	0.7558 0.6417	0.089724 0.089958	0.006598 -0.001247	-0.000437 -5.50E-05	-0.00115 -0.000113	0.004359 0.004381
34 21	75.3 0.1771	717.4 0.002363	-5 -8.5	10.91 -1.67	4.7 3.54	0.7562 0.6424	0.099089 0.099357	0.007407 -0.001257	-0.000521 -7.80E-05	-0.001872 4.10E-05	0.005058 0.005084
34 22	75.4 0.1773	717.7 0.002362	-5 -9.6	12.58 -2	4.1 4.62	0.7566 0.6426	0.118884 0.119251	0.0094 -0.000997	-0.000714 -0.000117	-0.00286 -0.000225	0.006821 0.006857
35 32	75.2 0.1775	715.3 0.00234	-7.5 -8.2	5.35 -0.57	2.3 0.71	0.7506 0.6375	0.020076 0.020034	0.000992 -0.001637	7.40E-05 0.000306	-0.000771 -0.00088	0.00178 0.001755
35 33	75.1 0.1769	717.1 0.002342	-7.5 -8.9	6.87 -0.71	3.9 1.38	0.7523 0.6392	0.039378 0.039521	0.003679 -0.001492	3.0E-06 0.000324	-0.000893 -0.000657	0.002458 0.002436
35 34	75.2 0.1772	716.4 0.002343	-7.5 -9.7	8.37 -1.04	4.8 2.19	0.7521 0.6389	0.058791 0.059132	0.006462 -0.001267	-0.000249 0.000186	-0.001221 -0.000824	0.003314 0.003318
40 29	75.3 0.1775	716.3 0.002381	-7.5 -10.1	9.26 -1.13	4.9 2.63	0.7556 0.642	0.06924 0.069749	0.008435 -0.000675	-0.000482 4.0E-05	-0.000618 -0.000547	0.003969 0.003998
40 30	75.1 0.177	716.6 0.002381	-7.5 -10.6	10.08 -1.32	4.9 3.09	0.7559 0.6423	0.078886 0.079506	0.009918 -0.000464	-0.000586 1.60E-05	-0.000946 -0.00086	0.00457 0.004607
40 31	75.2 0.1771	716.9 0.002381	-7.5 -11	10.85 -1.36	4.8 3.54	0.7564 0.6426	0.08952 0.090227	0.011288 -0.000493	-0.000536 0.000156	-0.001116 -0.000573	0.005267 0.005292
40 32	75.2 0.177	717.4 0.002381	-7.5 -11.6	11.66 -1.51	4.5 4.11	0.7568 0.643	0.097714 0.098543	0.012754 -0.000109	-0.000677 0.000117	-0.001491 -0.000959	0.006036 0.006072

RUN POINT	VKTS V/OR	VTIP RHO	ALPHA ALPHCP	COLL A1S	L/DR B1S	MAT MTP	CLRHS CLRHS/S	CXRHS CXRHS/S	CMXHS CMXHS/S	CYRH/S CYRH/S	CMZH/S CMZH/S CP/S
40 33	75.4 0.1775	717.4 0.002381	-7.5 -12.6	13.21 -1.66	4.1 5.08	0.7571 0.643	0.11829 0.119302	0.015503 -6.90E-05	-0.000553 0.000474	-0.002054 -0.000756	0.007831 0.007836
41 13	75 0.176	719.7 0.00234	-10 -10.7	5.89 -0.52	2.3 0.73	0.7542 0.6413	0.019439 0.019516	0.002148 -0.00126	-0.000367 -4.0E-05	-0.000111 -0.000631	0.001851 0.001887
41 14	75.2 0.1771	716.8 0.00234	-10 -11.4	7.42 -0.66	4 1.44	0.7519 0.6388	0.038947 0.039348	0.005717 -0.001133	-0.000311 0.000166	-0.000195 -0.000485	0.002718 0.002731
41 15	75.3 0.1772	717.4 0.002339	-10 -12.2	9.02 -0.9	4.7 2.2	0.7526 0.6393	0.057976 0.058694	0.009208 -0.001	-0.000611 5.10E-05	-0.00049 -0.000487	0.003757 0.003806
41 16	75.4 0.1771	718.3 0.002339	-10 -12.5	9.79 -1.03	4.8 2.5	0.7535 0.6401	0.067788 0.068647	0.010874 -0.001062	-0.000695 7.30E-05	-0.000624 -0.000198	0.004365 0.004442
41 17	75.4 0.1776	716.2 0.002339	-10 -12.9	10.64 -1.16	4.8 2.94	0.7517 0.6383	0.078559 0.079596	0.012848 -0.000989	-0.000782 0.000118	-0.000878 -0.000267	0.005116 0.005174
41 18	75.8 0.1781	718.2 0.002339	-10 -14.1	12.3 -1.33	4.5 4.06	0.7541 0.6401	0.097793 0.099216	0.016747 -0.000489	-0.000831 0.000366	-0.001317 -0.000662	0.006821 0.006862
17 19	89.9 0.2119	716.6 0.002383	0 -0.6	3.31 -0.65	2.7 0.58	0.7796 0.6433	0.018739 0.018738	-0.000817 -0.00082	-0.000259 -0.000259	-0.000529 -0.001021	0.001309 0.001309
17 20	90 0.212	716.2 0.002382	0 -1.1	4.68 -0.65	5.1 1.06	0.7792 0.6429	0.038935 0.038935	-0.000793 -0.0008	6.60E-05 6.60E-05	-0.00068 7.90E-05	0.001449 0.001449
17 21	90.2 0.2123	716.9 0.002382	0 -2	6.25 -0.88	6.4 1.98	0.7799 0.6433	0.058227 0.058227	-0.000476 -0.000486	0.000159 0.00016	-0.000979 -0.000437	0.001843 0.001843
17 22	90.2 0.212	717.7 0.002382	0 -2.4	7.02 -0.97	6.5 2.39	0.7808 0.6442	0.068014 0.068014	-0.000437 -0.000449	0.000168 0.000168	-0.001178 -0.000343	0.002115 0.002115

RUN	VKTS POINT	VTIP V/OR	ALPHA ALPHCP	COLL A1S	L/DR B1S	MAT MTIP	CLRHS/S	CXRHS/S	CMXHS/S	CYRH/S	CMZH/S
17	90.2 23	716.9 0.002383	0 -2.8	7.77 -1.11	6.7 2.78	0.7803 0.6436	0.078395 0.078395	-0.000462 -0.000475	0.000123 0.000123	-0.001484 -9.0E-05	0.002389 0.002389
17	90.3 24	718.6 0.002383	0 -3.8	9.35 -1.3	6.4 3.78	0.7819 0.6451	0.098547 0.098547	-0.00027 -0.000287	0.000228 0.000228	-0.002044 -5.70E-05	0.003202 0.003202
17	90.4 25	717.9 0.002383	0 -5.3	11.14 -1.39	5.6 5.25	0.7816 0.6446	0.1118068 0.1118068	0.000626 0.000605	0.000561 0.000562	-0.000259 -0.000476	0.004586 0.004586
28	90.2 29	718 0.002302	0 -2.2	6.91 -1.03	6.3 2.21	0.779 0.6427	0.067513 0.067513	-0.001191 -0.001191	-0.000147 -0.000147	-0.000845 -4.40E-05	0.002024 0.002024
14	90.4 8	716.1 0.002367	-5 -7.7	8.67 -0.81	6.4 2.74	0.7791 0.6422	0.068037 0.068262	0.005556 -0.000395	-0.000115 0.000187	-0.00068 -0.00027	0.003466 0.003463
15	90.3 7	718.4 0.002391	-5 -7.7	8.65 -0.87	5.9 2.7	0.784 0.6467	0.067535 0.067705	0.004904 -0.001	-0.000432 -0.000131	-0.000708 4.50E-05	0.003431 0.003455
15	90.1 12	718.1 0.002382	-5 -5.6	4.88 -0.62	2.8 0.6	0.782 0.6454	0.019956 0.019947	0.000762 -0.00098	-0.000451 -0.000307	-0.000546 -0.000501	0.00163 0.001663
15	90.1 13	718.3 0.002383	-5 -6.4	6.38 -0.63	5.1 1.45	0.7824 0.6457	0.039467 0.039546	0.002628 -0.000822	-0.000163 2.90E-05	-0.000691 -0.000386	0.002196 0.002202
15	90.3 14	717.9 0.002383	-5 -7.2	7.84 -0.62	6.2 2.17	0.7823 0.6453	0.058217 0.058369	0.004288 -0.000802	8.40E-05 0.00034	-0.000778 -7.60E-05	0.002932 0.002913
15	90.2 15	717.1 0.002384	-5 -7.8	8.74 -0.8	6.3 2.78	0.7815 0.6447	0.06909 0.069296	0.005387 -0.000655	-5.70E-05 0.000245	-0.001076 -0.000232	0.003461 0.003453
15	90.3 16	717.1 0.002384	-5 -8.3	9.6 -0.89	6.1 3.34	0.7817 0.6447	0.077636 0.077895	0.00636 -0.00043	-0.000122 0.000231	-0.00129 -0.000485	0.004051 0.004046

RUN POINT	VKTS V/OR	VTIP RHO	ALPHA ALPHCP	COLL A1S	L/DR B1S	MAT MTP	CLRHS CLRHS/S	CXRHS CXRH/S	CMXHS CMXHS/S	CYRH/S CYRH/S	CMZH/S CP/S
15 17	90.5 0.2126	718.5 0.002384	-5 -9.6	11.19 -0.96	6 4.57	0.7832 0.6459	0.098189 0.098564	0.008593 2.0E-06	9.80E-05 0.000561	-0.001718 -0.000562	0.005323 0.005294
15 18	90.6 0.2128	719 0.002384	-5 -11.3	13.14 -1.11	5 6.28	0.7838 0.6463	0.118433 0.118965	0.011283 0.000918	-8.80E-05 0.000562	-0.002645 -0.000757	0.007453 0.007433
22 11	90.1 0.2121	717 0.002332	-5 -5.4	4.84 -0.43	2.7 0.45	0.781 0.6444	0.020214 0.02016	0.000267 -0.001496	-0.000134 1.10E-05	-0.000191 -3.20E-05	0.001665 0.001671
22 12	90.2 0.2123	717.1 0.002333	-5 -6.2	6.28 -0.56	4.6 1.15	0.781 0.6443	0.038456 0.038464	0.001776 -0.001583	-9.90E-05 9.0E-05	-0.000389 8.40E-05	0.002165 0.002165
22 13	90.3 0.2127	716.7 0.002329	-5 -7.1	7.93 -0.82	5.7 2.13	0.7806 0.6437	0.059821 0.0599	0.003515 -0.001712	-0.000426 -0.000166	-0.000831 0.000361	0.002969 0.002995
22 14	90.3 0.2124	717.9 0.002329	-5 -7.7	8.73 -0.89	5.8 2.75	0.7816 0.6447	0.067582 0.06772	0.004534 -0.001374	-0.000281 2.0E-05	-0.001031 -0.000379	0.003443 0.003454
22 15	90.3 0.2123	718.3 0.002328	-5 -8.3	9.58 -1.04	6 3.31	0.7819 0.645	0.080432 0.080609	0.005539 -0.001492	-0.000411 -6.20E-05	-0.001466 -2.80E-05	0.003987 0.004008
35 5	90.3 0.2125	716.8 0.002368	-7.5 -8.4	5.78 -0.49	2.7 0.87	0.7805 0.6437	0.020264 0.020235	0.001107 -0.001547	-0.000683 -0.000446	0.000211 -0.000956	0.001769 0.001843
35 6	90.4 0.2123	716.1 0.002364	-7.5 -9	7.17 -0.52	4.6 1.53	0.7795 0.6426	0.038898 0.039027	0.003542 -0.001566	-0.000457 -0.000126	0.000187 -0.000271	0.002506 0.002544
35 7	90.3 0.212	718.7 0.002362	-7.5 -10	8.81 -0.7	5.6 2.49	0.7813 0.6446	0.057991 0.058315	0.006287 -0.001336	-0.000529 -6.80E-05	-0.0001 -0.000393	0.003497 0.003536
35 8	90.3 0.2128	716.3 0.002361	-7.5 -10.5	9.64 -0.8	6 2.98	0.7789 0.6422	0.069311 0.069739	0.007824 -0.00129	-0.0006 -6.20E-05	-0.000382 -0.000285	0.004079 0.004123

RUN	VKTS POINT	VTIP V/OR	ALPHA ALPHCP	COLL A1S	L/DR B1S	MAT MTIP	CLRHS CLRHS/S	CXRHS CXRHS/S	CMXHS CMXHS/S	CYRH/S CMYH/S	CMZH/S CP/S
35	90.4 9	0.2127 0.002359	717.5 -11.2	-7.5 -0.84	10.47 3.73	5.9 0.6431	0.7798 0.07834	0.009343 -0.00089	-0.000593 3.30E-05	-0.00061 -0.000684	0.004757 0.004794
35	90.4 10	0.2124 0.002358	718.2 -11.8	-7.5 -0.94	11.26 4.26	6 0.6435	0.7802 0.088451	0.087766 -0.000546	0.011004 0.000135	-0.000579 -0.001056	0.005435 0.005464
35	90.5 11	0.2125 0.002357	719.2 -12.3	-7.5 -0.99	12.1 4.81	5.8 0.6443	0.7812 0.099188	0.098399 -0.000457	0.012493 0.000293	-0.000527 -0.001203	0.006246 0.006262
35	90.6 12	0.2135 0.002355	716.7 -13.5	-7.5 -1.14	13.2 6.02	5.4 0.6418	0.7789 0.110463	0.109435 0.000637	0.01505 0.000283	-0.0007 -0.001838	0.007486 0.007514
16	89.9 20	0.2117 0.002367	716.8 -10.6	-10 -0.43	6.38 0.58	2.8 0.6417	0.7776 0.020932	0.020852 -0.00137	0.002286 -0.000165	0.000517 0.00024	0.001982 0.002042
16	90.1 21	0.2117 0.002368	718.3 -11.7	-10 -0.49	7.92 1.69	4.7 0.6431	0.7793 0.038892	0.038491 -0.001095	0.005676 -0.000165	-0.00053 -0.000273	-6.70E-05 0.002894
16	90.3 22	0.2119 0.002367	719.1 -12.6	-10 -0.72	9.55 2.64	5.8 0.6439	0.7803 0.059584	0.05883 -0.000872	0.009488 5.0E-06	-0.00072 -0.000453	0.004108 0.002942
16	90.4 23	0.2125 0.002367	717.8 -13	-10 -0.8	10.39 2.97	5.9 0.6427	0.7793 0.069542	0.068653 -0.000965	0.011126 1.0E-05	-0.000827 -8.10E-05	0.004749 0.004821
16	90.4 24	0.2131 0.002366	715.9 -13.7	-10 -0.81	11.14 3.72	5.9 0.641	0.7776 0.078245	0.077158 -0.000583	0.013013 0.000168	-0.000801 -0.000356	-0.000748 -0.0005564
16	90.6 25	0.2132 0.002367	717.2 -14.7	-10 -1.21	12.8 4.74	5.5 0.6422	0.7792 0.09891	0.097501 -0.000541	0.016642 -0.000235	-0.001507 -0.000117	0.007192 0.007344
16	90.8 26	0.2137 0.002366	717.5 -16.3	-10 -1.36	14.41 6.32	5 0.6424	0.7797 0.118094	0.116172 0.000737	0.021232 -2.40E-05	-0.001678 -0.001277	0.00928 0.009529

RUN POINT	VKTS V/OR	VTIP RHO	ALPHA ALPHACP	COLL A1S	L/DR B1S	MAT MTIP	CLRHS CLRHS/S	CXRHS CXRHS/S	CMXHS CMXHS/S	CYRH/S CYRH/S	CMZH/S CP/S
28	104.8	717.6	0	3.12	2.6	0.8006	0.018231	-0.001738	-9.90E-05	-0.000281	0.001307
30	0.2466	0.002291	0.1	-0.35	-0.06	0.6423	0.018231	-0.001738	-9.90E-05	-0.000299	0.001307
28	105.2	717.1	0	4.6	4.9	0.8004	0.037064	-0.001661	-9.0E-05	-0.000522	0.001457
31	0.2476	0.002299	-1	-0.52	0.95	0.6416	0.037064	-0.001661	-9.0E-05	-0.000462	0.001457
28	105.1	718.5	0	6.2	6.5	0.8015	0.057036	-0.001606	-0.000188	-0.000946	0.001771
32	0.2469	0.002288	-1.9	-0.76	1.92	0.6428	0.057036	-0.001606	-0.000188	-0.000303	0.001771
28	105.1	718.6	0	6.95	7.2	0.8013	0.068919	-0.001722	-9.70E-05	-0.001193	0.001921
33	0.2468	0.002286	-2.4	-0.78	2.36	0.6427	0.068919	-0.001722	-9.70E-05	4.90E-05	0.001921
28	105	717	0	7.8	7.1	0.7994	0.076964	-0.001616	-3.80E-05	-0.001437	0.002281
34	0.2472	0.002285	-3	-0.82	2.97	0.641	0.076964	-0.001616	-3.80E-05	-5.50E-05	0.002281
28	105.1	718.3	0	9.63	7	0.8006	0.09472	-0.001154	-7.0E-06	-0.002146	0.003208
35	0.247	0.002283	-4.4	-0.98	4.43	0.642	0.09472	-0.001154	-7.0E-06	-0.000424	0.003208
28	105.3	719.5	0	10.35	6.9	0.8017	0.10868	-0.000816	4.30E-05	-0.002573	0.00367
36	0.247	0.002282	-5	-1.07	4.99	0.6429	0.10868	-0.000816	4.30E-05	-0.000764	0.00367
22	105.3	715.1	-5	9.21	6.5	0.8019	0.069208	0.004137	-0.000485	-0.001223	0.00365
16	0.2485	0.002319	-8.2	-0.64	3.21	0.6423	0.069306	-0.001911	-0.000165	8.70E-05	0.003678
34	105	716.1	-5	5.14	2.6	0.8007	0.019129	-0.000331	-0.000392	-8.80E-05	0.001693
23	0.2474	0.002347	-5.2	-0.28	0.24	0.6419	0.019028	-0.001997	-0.000243	0.000262	0.001721
34	105.1	717.7	-5	6.89	5.2	0.8022	0.041191	0.001658	-0.000203	-0.000345	0.002372
24	0.2472	0.002347	-6.5	-0.34	1.47	0.6432	0.041179	-0.001938	4.0E-06	-0.000186	0.002381
34	105.4	717.7	-5	8.45	6.3	0.8024	0.059027	0.003314	-0.000326	-0.000687	0.003142
25	0.2479	0.002344	-7.5	-0.51	2.51	0.643	0.059091	-0.001843	-5.10E-05	-0.000216	0.003158

RUN	VKTS POINT	VTIP V/OR	ALPHA ALPHCP	COLL A1S	L/DR B1S	MAT MTTP	CLRHS/S CLRHS	CXRHS/S CXRHS	CMXHS/S CMXHS	CYRH/S CYRH/S	CMZH/S CP/S
34	105.2	716.4	-5	9.24	6.7	0.8008	0.069913	0.004177	-0.000275	-0.000884	0.00363
26	0.2479	0.002344	-8.1	-0.55	3.11	0.6417	0.070011	-0.001932	4.20E-05	7.30E-05	0.00364
34	105.4	717.4	-5	10.1	6.9	0.8018	0.080073	0.005065	-0.000408	-0.001298	0.004133
27	0.2479	0.002343	-8.6	-0.7	3.62	0.6425	0.08021	-0.001933	-4.60E-05	2.30E-05	0.004153
34	105.3	718.6	-5	10.84	6.6	0.8026	0.088282	0.00582	-0.000367	-0.00149	0.004749
28	0.2474	0.002343	-9.2	-0.72	4.2	0.6434	0.088454	-0.001896	4.80E-05	6.60E-05	0.004763
34	105.4	716.5	-5	11.76	6.2	0.8009	0.096774	0.006917	-0.000568	-0.001913	0.005548
29	0.2484	0.002343	-10.1	-0.77	5.07	0.6416	0.097009	-0.001544	-8.30E-05	-0.000157	0.005576
34	105.6	718.9	-5	13.05	5.9	0.8032	0.111263	0.008393	-0.000541	-0.002412	0.006759
30	0.2479	0.002342	-11.1	-0.88	6.08	0.6437	0.111571	-0.001336	5.10E-05	-5.40E-05	0.006781
35	105.1	717.4	-7.5	6.27	2.7	0.8014	0.019362	0.000607	-0.000129	5.50E-05	0.001906
13	0.2472	0.002345	-8.4	-0.13	0.9	0.6425	0.019276	-0.001925	0.000112	-0.000619	0.001907
35	105.2	719.2	-7.5	7.77	5.2	0.8029	0.039625	0.003428	-0.000464	-0.00023	0.002703
14	0.2468	0.002343	-9.3	-0.37	1.82	0.644	0.039733	-0.001773	-0.000107	-0.000397	0.00274
35	105.3	715.5	-7.5	9.51	6.6	0.7997	0.059472	0.006387	-0.000531	-0.000536	0.003805
15	0.2485	0.002342	-10.7	-0.48	3.15	0.6406	0.059796	-0.00143	-3.0E-05	-0.000609	0.003842
35	105.5	718.5	-7.5	10.27	6.9	0.8025	0.069206	0.007923	-0.000414	-0.000727	0.004441
16	0.2479	0.002341	-11.2	-0.48	3.72	0.6431	0.069648	-0.001178	0.000169	-0.000922	0.004457
35	105.4	721.7	-7.5	11.22	6.8	0.8051	0.079364	0.009537	-0.000574	-0.001035	0.00522
17	0.2466	0.002341	-12	-0.55	4.48	0.6459	0.07993	-0.000903	0.000112	-0.000944	0.00525
35	105.4	719.7	-7.5	11.95	6.8	0.8032	0.08846	0.010747	-0.000546	-0.001171	0.005866
18	0.2471	0.00234	-12.6	-0.55	5.08	0.644	0.089106	-0.000891	0.000225	-0.000696	0.005887

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RUN POINT	VKTS V/OR	VTIP RHO	ALPHA ALPHCP	COLL A1S	L/DR B1S	MAT MTP	CLRHS CLRHS/S	CXRHS CXRHS/S	CMXHS CMXHS/S	CYRH/S CYRH/S	CMZH/S CMZH/S
35 19	105.6 0.2486	717 0.002339	-7.5 -13.5	12.96 -0.6	6.4 6.02	0.8009 0.6415	0.097917 0.09874	0.012723 -0.000167	-0.000596 0.000314	-0.001609 -0.001496	0.006928 0.006946
35 20	105.7 0.2495	714.9 0.002338	-7.5 -14.3	13.82 -0.6	6.2 6.8	0.7991 0.6395	0.107331 0.108271	0.014236 0.000105	-0.000561 0.000469	-0.001892 -0.001304	0.007854 0.00786
17 26	120.2 0.2828	717.6 0.002366	0 -0.1	3.44 -0.18	3.2 0.07	0.8276 0.6452	0.019021 0.01902	-0.001266 -0.001127	-0.000337 -0.000337	-0.000726 -0.000256	0.001307 0.001307
17 27	120.3 0.2829	718 0.002364	0 -1.1	4.86 -0.18	6.6 1.07	0.8278 0.6453	0.040294 0.040293	-0.001163 -0.001117	4.50E-05 4.50E-05	-0.000998 0.000216	0.001387 0.001387
17 28	120.3 0.2832	716.9 0.002364	0 -2.5	6.53 -0.38	8 2.47	0.8266 0.6442	0.057876 0.057876	-0.000847 -0.000857	-4.0E-06 -4.0E-06	-0.001197 -0.000258	0.0018 0.0018
17 29	120.5 0.2833	717.6 0.002362	0 -3.2	7.4 -0.46	8.7 3.16	0.8273 0.6446	0.068767 0.068766	-0.000575 -0.000587	3.60E-05 3.60E-05	-0.001542 -0.000653	0.002079 0.002079
17 30	120.2 0.2832	716.5 0.002362	0 -3.8	8.27 -0.61	8.8 3.82	0.8258 0.6436	0.079284 0.079284	-0.000443 -0.000457	-2.50E-05 -2.40E-05	-0.001895 -0.000716	0.002412 0.002412
17 31	120.4 0.2839	715.9 0.002361	0 -5.6	9.99 -0.61	8.6 5.56	0.8255 0.6429	0.096952 0.096952	0.000608 0.000591	0.000148 0.000149	-0.002444 -0.001488	0.003366 0.003366
17 32	120.4 0.283	717.8 0.002362	0 -7.1	11.63 -0.61	7.1 7.07	0.8272 0.6447	0.109421 0.109421	0.001397 0.001378	0.000286 0.000286	-0.00277 -0.001319	0.004753 0.004753
14 9	120.6 0.2838	717.4 -9	-5 -0.2	9.58 -0.2	8.3 3.96	0.8262 0.6435	0.067083 0.067302	0.005442 -0.000425	-0.000343 -9.0E-06	-0.000873 -0.000693	0.003811 0.003826
14 17	120.3 0.2832	717.2 0.002331	-5 -5.6	5.49 -0.1	2.8 0.64	0.8231 0.6414	0.017975 0.017911	5.10E-05 -0.001515	-0.000222 -6.10E-05	-0.000517 -0.000614	0.001834 0.001846

RUN POINT	VKTS V/OR	VTIP RHO	ALPPHA ALPHCP	COLL AIS	LDR B1S	MAT MTIP	CLRHS CLRHS/S	CXRHS CXRHS/S	CMXH/S CMXH/S	CYRH/S CYRH/S	CMZH/S CMZH/S
											CP/S
14	120.4 0.2835	716.8 0.002333	-5 -6.8	7.12 -0.1	5.2 1.76	0.8231 0.6413	0.03652 0.036549	0.001929 -0.001261	-9.70E-05 0.000123	-0.000679 -0.000748	0.002522 0.002521
18	120.2 0.2824	718.5 0.002333	-5 -8.1	8.96 -0.21	7 3.11	0.8245 0.6429	0.0582 0.058327	0.004001 -0.001086	-0.000143 0.00016	-0.000972 -0.000511	0.003467 0.003466
14	120.5 0.2841	716.2 0.002337	-5 -8.9	9.74 -0.31	7.7 3.89	0.8286 0.6452	0.067902 0.068074	0.004939 -0.000998	-0.000589 -0.000249	-0.000779 -0.000463	0.003876 0.003913
15	120.6 0.2829	719.7 0.002368	-5 -9.8	10.65 -0.32	7.7 4.78	0.8315 0.6481	0.076196 0.076456	0.006304 -0.000361	-0.000375 2.40E-05	-0.001 0.001185	0.00456 0.004575
9	120.8 0.284	717.9 0.002365	-5 -11.4	12.54 -0.32	7.3 6.35	0.8296 0.6461	0.09558 0.095963	0.008567 0.000204	-0.00035 0.000185	-0.001705 -0.000971	0.006122 0.006129
10	120.8 0.2846	716.1 0.002364	-5 -12.6	13.72 -0.31	6.8 7.63	0.8279 0.6444	0.106376 0.106869	0.010301 0.000991	-0.000252 0.000394	-0.002037 -0.001056	0.007394 0.007387
15	120.8 0.2846	716.1 0.002364	-5 -12.6	13.72 -0.31	6.8 7.63	0.8279 0.6444	0.106376 0.106869	0.010301 0.000991	-0.000252 0.000394	-0.002037 -0.001056	0.007394 0.007387
11	120.1 0.2828	716.9 0.002328	-7.5 -8.7	6.8 0.05	2.5 1.24	0.8229 0.6415	0.017361 0.017211	-1.50E-05 -0.002281	-0.000198 5.80E-05	-0.000149 -0.001134	0.001947 0.001956
35	120.1 0.2828	716.9 0.002328	-7.5 -8.7	6.8 0.05	2.5 1.24	0.8229 0.6415	0.017361 0.017211	-1.50E-05 -0.002281	-0.000198 5.80E-05	-0.000149 -0.001134	0.001947 0.001956
21	120.2 0.2825	718.5 0.002327	-7.5 -9.6	8.29 -0.16	5.2 2.1	0.8243 0.6428	0.037971 0.038019	0.002858 -0.002123	-0.000537 -0.000162	-0.00047 -0.000162	0.002839 0.002885
35	120.2 0.2828	718.5 0.002326	-7.5 -9.6	8.29 -0.16	5.2 2.1	0.8243 0.6428	0.037971 0.038019	0.002858 -0.002123	-0.000537 -0.000162	-0.00047 -0.000162	0.002839 0.002885
22	120.4 0.2828	718.6 0.002326	-7.5 -11.3	10.19 -0.23	6.9 3.82	0.8245 0.6427	0.060183 0.060486	0.006266 -0.001643	-0.000632 -8.0E-05	-0.000699 -0.000861	0.004184 0.00423
35	120.4 0.2836	716.9 0.002325	-7.5 -12.1	10.88 -0.23	7 4.59	0.8229 0.6411	0.065447 0.065869	0.007518 -0.001089	-0.00056 6.40E-05	-0.00092 -0.001776	0.004749 0.004781
24	120.6 0.284	716.7 0.002325	-7.5 -12.8	11.89 -0.23	7.3 5.33	0.8229 0.6409	0.076989 0.077541	0.00928 -0.000849	-0.000649 8.80E-05	-0.001193 -0.001687	0.005606 0.005643
35	120.6 0.284	716.7 0.002325	-7.5 -12.8	11.89 -0.23	7.3 5.33	0.8229 0.6409	0.076989 0.077541	0.00928 -0.000849	-0.000649 8.80E-05	-0.001193 -0.001687	0.005606 0.005643

RUN POINT	VKTS V/OR	VTIP RHO	ALPHA ALPHCP	COLL A1S	LDR B1S	MAT MTP	CLRHS CLRHS/S	CXRHS CXRHS/S	CMXHS CMXHS/S	CYRH/S CYRH/S	CMZH/S CP/S
35 26	120.5 0.2832	717.9 0.002323	-7.5 -13.4	12.77 -0.23	7.1 5.85	0.8237 0.6419	0.087767 0.088361	0.010306 -0.001238	-0.000675 0.000167	-0.001344 -0.000467	0.006404 0.006437
35 27	120.7 0.2836	718.4 0.002322	-7.5 -14.3	13.74 -0.3	6.9 6.81	0.8243 0.6422	0.097324 0.098077	0.012141 -0.000666	-0.000746 0.000231	-0.00183 -0.001178	0.007434 0.007467
16 27	120.4 0.2833	717.1 0.002348	-10 -11.3	7.78 -0.08	3.1 1.28	0.8247 0.6427	0.020758 0.020738	0.001699 -0.001931	-0.000554 -0.000145	0.000102 -0.000394	0.002301 0.002363
16 28	120.5 0.2829	719.1 0.002346	-10 -12.6	9.42 -0.08	5.3 2.58	0.8266 0.6444	0.03867 0.038986	0.005201 -0.001593	-0.000646 -3.20E-05	7.0E-06 -0.000214	0.003479 0.003538
16 29	120.6 0.2836	717.7 0.002346	-10 -14.2	11.23 -0.16	6.6 4.17	0.8254 0.6431	0.057571 0.058291	0.009181 -0.000956	-0.000902 -1.90E-05	-0.000351 -0.000859	0.005006 0.005087
16 30	120.6 0.2835	717.8 0.002345	-10 -14.7	12.12 -0.2	7.3 4.72	0.8254 0.6431	0.070214 0.071113	0.011418 -0.000948	-0.000979 5.80E-05	-0.000612 -0.000454	0.005886 0.005967
16 31	120.7 0.2833	718.8 0.002345	-10 -15.7	13.08 -0.29	6.9 5.7	0.8262 0.6438	0.077996 0.079133	0.013372 -0.000375	-0.001277 -6.80E-05	-0.001049 -0.001073	0.006855 0.006973
41 19	75.8 0.1785	717 0.002334	-10 -15.4	13.8 -1.45	4.1 5.36	0.7531 0.639	0.115856 0.117732	0.020938 0.000502	-0.000908 -0.000621	-0.001889 -0.001433	0.008724 0.008749
41 20	120.4 0.2836	716.7 0.002314	-10 -14.6	12.08 -0.24	7 4.64	0.8211 0.6397	0.069323 0.070141	0.010777 -0.001424	-0.001172 -0.000157	-0.000358 -0.000315	0.005739 0.005856
41 21	120.6 0.2839	716.8 0.002314	-10 -15.7	13.08 -0.24	6.8 5.71	0.8214 0.6397	0.076047 0.077136	0.012922 -0.000448	-0.001087 0.000102	-0.000639 -0.001796	0.006751 0.006837
41 22	120.5 0.2837	717.3 0.002313	-10 -17.2	14.79 -0.24	6.9 7.2	0.8216 0.6401	0.098619 0.100075	0.017011 -0.000372	-0.001389 0.000151	-0.001257 -0.001148	0.008751 0.008859

RUN	VKTS POINT	VTIP V/OR	ALPHA ALPHCP	COLL A1S	L/DR B1S	MAT MTIP	CLRHS/S	CXRHS/S	CMXHS/S	CYRH/S	CMZH/S
41	120.5	717.3	-10	15.72	6.4	0.8216	0.105443	0.018986	-0.00135	-0.001546	0.009969
23	0.2835	0.002313	-18.1	-0.23	8.14	0.6401	0.107138	0.000388	0.000402	-0.001605	0.010052
28	140.4	717	0	7.82	7.7	0.8524	0.066591	-0.00179	-0.000246	-0.001587	0.002248
38	0.3304	0.00225	-3.6	-0.14	3.58	0.6407	0.066591	-0.00179	-0.000246	-0.00108	0.002248
14	140.4	717.6	-5	10.62	7.8	0.8557	0.066738	0.004906	-0.000699	-0.001153	0.004409
10	0.3302	0.002322	-9.6	0	4.58	0.6433	0.066912	-0.000929	-0.000312	-0.000808	0.004454
14	140.2	716	-5	6.19	3.2	0.8536	0.019231	-0.000175	-0.000645	-0.000301	0.001895
11	0.3306	0.002319	-5.8	0.11	0.77	0.6415	0.019142	-0.001851	-0.000477	-0.000357	0.001944
14	140.3	717.2	-5	7.86	6.1	0.8543	0.039613	0.001831	-0.000533	-0.000694	0.002725
12	0.3301	0.002318	-7.1	0.11	2.12	0.6423	0.039621	-0.001628	-0.000293	-0.00051	0.002761
14	140.4	716.7	-5	9.71	7.5	0.8539	0.058302	0.003731	-0.000574	-0.001071	0.003771
13	0.3307	0.002316	-8.7	0.1	3.71	0.6417	0.058405	-0.001364	-0.000243	-0.000411	0.003807
14	140.3	716.9	-5	10.65	7.7	0.8538	0.068215	0.004607	-0.000523	-0.001234	0.004409
14	0.3304	0.002316	-9.5	0.1	4.49	0.6418	0.068357	-0.001356	-0.000137	-4.40E-05	0.004438
14	140.3	718.2	-5	11.63	7.7	0.8548	0.077228	0.005961	-0.000381	-0.001469	0.005241
15	0.3297	0.002316	-10.5	0.1	5.47	0.6428	0.077505	-0.000797	7.70E-05	-0.000879	0.005255
14	140.4	716.5	-5	13.84	7.2	0.8533	0.096197	0.008782	-0.000426	-0.00214	0.007326
16	0.3307	0.002315	-12.6	0.11	7.57	0.6413	0.096596	0.000365	0.000215	-0.001434	0.007336
35	140.5	717.5	-7.5	7.64	2.9	0.8539	0.020276	-0.000261	-0.000546	-0.000252	0.002167
28	0.3306	0.002306	-8.8	0.21	1.31	0.6417	0.020069	-0.002905	-0.000259	-0.000858	0.00222
35	140.5	716.2	-7.5	9.27	5.1	0.8524	0.038357	0.002349	-0.000653	-0.000449	0.003206
29	0.3312	0.002304	-10	0.21	2.52	0.6403	0.038335	-0.002677	-0.000229	-0.000687	0.003264

RUN POINT	VKTS V/OR	VTIP RHO	ALPHA ALPHACP	COLL AIS	L/DR B1S	MAT MTP	CLRHS CLRHS/S	CXRHS CXRHS/S	CMXHS CMXHS/S	CYRH/S CMYHS/C	CMZH/S CPS/S
35 30	140.6 0.3311	716.7 0.002302	-7.5 -11.8	11.19 0.15	7 4.29	0.8527 0.6406	0.060364 0.060592	0.005699 -0.002229	-0.000751 -0.000132	-0.000889 -0.000819	0.004692 0.00475
35 31	140.8 0.3316	716.9 0.002301	-7.5 -12.8	12.25 0.15	7 5.34	0.853 0.6406	0.068919 0.06927	0.007212 -0.001846	-0.000837 -0.000102	-0.001098 -0.00111	0.005558 0.005642
39 12	140.5 0.3298	719.3 0.002313	-7.5 -12.4	11.96 0.11	6.4 4.95	0.855 0.6429	0.066214 0.066537	0.006811 -0.00189	-0.000924 -0.000185	-0.000694 -0.001161	0.005602 0.005675
39 13	140.6 0.331	717.1 0.002312	-7.5 -13.5	13.04 0.11	6.6 5.99	0.8529 0.6408	0.076903 0.07735	0.00846 -0.00165	-0.001072 -0.000207	-0.001103 -0.001193	0.006559 0.006642
39 14	140.8 0.3314	716.9 0.002311	-7.5 -14.7	14.15 0.08	6.6 7.16	0.8527 0.6404	0.086616 0.087234	0.010411 -0.000984	-0.000883 0.000134	-0.001367 -0.001866	0.00773 0.00779
41 24	140.1 0.33	716.9 0.002298	-10 -11.8	8.91 0.22	2.8 1.84	0.8513 0.6401	0.020232 0.020026	0.000582 -0.00294	-0.000843 -0.000399	0.000356 -0.000844	0.002481 0.002589
41 25	140.3 0.3303	717.1 0.002296	-10 -13.4	10.61 0.11	4.7 3.36	0.8515 0.6401	0.037372 0.037334	0.004031 -0.00249	-0.001192 -0.000516	-3.90E-05 -0.001407	0.003786 0.003935
41 26	140.4 0.3306	716.9 0.002295	-10 -14.8	12.41 0.1	6.4 4.76	0.8513 0.6398	0.058604 0.05912	0.008102 -0.002197	-0.00142 -0.000439	-0.000364 -0.000709	0.005529 0.005691
41 27	140.5 0.3302	718.3 0.002294	-10 -15.7	13.4 0.1	6.8 5.66	0.8526 0.641	0.068302 0.069019	0.010101 -0.001914	-0.001471 -0.000317	-0.000577 -0.000874	0.006518 0.006675
41 28	140.6 0.3308	717.2 0.002295	-10 -16.6	14.39 0.1	7 6.56	0.8517 0.64	0.07909 0.080012	0.012228 -0.001692	-0.001525 -0.000174	-0.000878 -0.000765	0.007647 0.007796
41 29	140.6 0.3297	720 0.002294	-10 -17.6	15.43 0.1	6.7 7.62	0.8542 0.6424	0.087167 0.088342	0.01439 -0.000965	-0.001553 1.90E-05	-0.00118 -0.00175	0.008922 0.009056

RUN POINT	VKTS V/OR	VTIP RHO	ALPHA ALPHCP	COLL AIS	L/DR B,S	MAT MTIP	CLRHS CLRHS/S	CXRHS CXRH/S	CMXHS CMXHS/S	CYRH/S CYRH/S	CMZH/S CP/S
40 34	150.2 0.354	716 0.002329	-5 -7.6	8.54 0.35	5.1 2.63	0.8709 0.6432	0.038634 0.03857	0.000955 0.002416	-6.70E-05 0.000241	-0.000876 0.003011	0.002978
40 35	150.4 0.3539	717.3 0.002327	-5 -8.8	10.28 0.35	6.7 3.81	0.8719 0.644	0.057901 0.057922	0.002771 0.002286	-0.000568 0.000216	-0.000713 0.000724	0.00401 0.004044
40 36	150.5 0.354	717.6 0.002325	-5 -9.8	11.42 0.31	7 4.84	0.872 0.644	0.068443 0.068523	0.0039 0.00208	-0.000586 0.000163	-0.001024 0.000734	0.004831 0.004864
40 37	150.6 0.3537	718.7 0.002323	-5 -10.6	12.28 0.3	7.2 5.63	0.8729 0.6448	0.079649 0.079771	0.004877 0.002083	-0.000701 0.000211	-0.001471 0.000145	0.005594 0.005634
40 38	160.2 0.3769	717.4 0.002313	-5 -7.8	8.98 0.25	4.8 2.82	0.8866 0.6439	0.040771 0.040665	0.000565 0.002991	-0.000889 0.000592	-0.000725 0.000694	0.003367 0.003431
40 39	160.1 0.3776	715.7 0.002312	-5 -9.4	10.79 0.26	6 4.36	0.8847 0.6422	0.05707 0.057065	0.002433 0.00255	-0.000807 0.000413	-0.001247 0.001348	0.004482 0.004535
40 40	160.3 0.3767	718.3 0.002311	-5 -10.2	11.89 0.25	6.4 5.23	0.887 0.6443	0.068084 0.068134	0.003547 0.002401	-0.000785 0.000318	-0.001588 0.00123	0.005317 0.005366
40 41	160.3 0.3775	716.6 0.002309	-5 -11.1	12.87 0.26	6.7 6.07	0.8852 0.6426	0.079403 0.079501	0.004586 0.002352	-0.000856 0.000317	-0.002014 0.000805	0.00614 0.006192
40 42	170.2 0.4007	716.7 0.002296	-5 -7.9	9.3 0.65	4 2.87	0.8999 0.6424	0.037729 0.037566	-0.000216 0.003504	-0.000261 6.10E-05	-0.000877 0.001346	0.003683 0.003692
40 43	170.3 0.4004	717.9 0.002294	-5 -9.6	11.38 0.45	5.2 4.55	0.9009 0.6433	0.057378 0.05732	0.001841 0.003167	-0.00065 0.000202	-0.001438 0.001189	0.005111 0.005148

Appendix D—Flight Correlation Static Data

Performance data for simulated flight conditions with prescribed hub moment trim for two different thrust conditions are presented in the following tables.

Data are grouped in terms of constant rotor thrust as a function of increasing tunnel velocity. The rotor control positions presented in these tables are based on the blade pitch transducer in the rotating system. The test logs presented in Appendix A should be consulted for identification of the test conditions presented in these tables. No wall corrections have been applied to these data. Definition of the measurements in the following tables is presented below.

Nomenclature

ALPHA	angle of rotor shaft from vertical, positive shaft tilt aft, deg	CS	speed of sound, ft/sec
ALPHCP	angle of attack of control axis relative to vertical, positive shaft tilt aft, ALPHCP = (ALPHA - B1S), deg	CXRH/S	ratio of rotor propulsive force coefficient to solidity, wind axis, -drag/ $\rho S(\Omega R)^2$
c	rotor blade chord length, ft	CXRHS/S	ratio of rotor propulsive force coefficient to solidity, shaft axis, -drag/ $\rho S(\Omega R)^2$
CLRH/S	ratio of rotor lift force coefficient to solidity, wind axis, lift/ $\rho S(\Omega R)^2$	CYRH/S	ratio of rotor side force coefficient to solidity, wind axis, side/ $\rho S(\Omega R)^2$
CLRHS/S	ratio of rotor lift force coefficient to solidity, shaft axis, lift/ $\rho S(\Omega R)^2$	L/DR	rotor lift to drag ratio
CMXH/S	ratio of rotor rolling moment coefficient to solidity, wind axis, roll moment/ $\rho S(\Omega R)^2 R$	MAT	rotor advancing tip Mach number, $(\Omega R + V)/CS$
CMXHS/S	ratio of rotor rolling moment coefficient to solidity, shaft axis, roll moment/ $\rho S(\Omega R)^2 R$	MTIP	rotor rotational tip Mach number, $\Omega R/CS$
CMYH/S	ratio of rotor pitching moment coefficient to solidity, wind axis, pitch moment/ $\rho S(\Omega R)^2 R$	P	per rev
CMZH/S	ratio of rotor yawing moment coefficient to solidity, wind axis, yaw moment/ $\rho S(\Omega R)^2 R$	POINT	point number
CP/S	ratio of rotor power coefficient to solidity, rotor power/ $\rho S(\Omega R)^3$	R	rotor radius, ft
		RHO	air density, ρ , slug/ft ³
		RUN	run number
		S	rotor reference area, $4cR$, ft ²
		THETA	rotor collective (rotating frame), $r/R = 0.07$, deg
		THETA1C	rotor cyclic pitch, 1P cosine part (rotating frame), deg
		THETA1S	rotor cyclic pitch, 1P sine part (rotating frame), deg
		V	tunnel velocity, ft/sec
		VKTS	tunnel velocity, V, knots
		VTIP	rotor tip speed, ft/sec
		V/OR	advance ratio, μ , $V/\Omega R$
		σ	rotor solidity, $S/\pi R^2$
		Ω	rotor rotation frequency, rad/sec

RUN POINT	VKTS V/OR	VTIP RHO	ALPHA ALPHACP	THETA THETA1C	L/DR THETAI1S	MAT MTIP	CLRHS CLRHS/S	CXRHS CXRHS/S	CMXHS CMXHS/S	CYRH/S CYRH/S	CMZH/S CP/S
43 5	42.3 0.0995	717.5 0.002341	-2.5 -3.8	8.36 2.69	2.4 -0.97	0.7027 0.6392	0.070106 0.070122	0.001898 -0.000563	-0.000699 -1.50E-05	-0.001454 -0.001451	0.003128 0.003235
43 6	42.4 0.0998	716.9 0.00234	-2.5 -4.5	8.4 2.79	2.4 -1.62	0.7021 0.6385	0.069644 0.069701	0.002818 -0.000223	-0.000439 -0.000298	-0.001393 -0.001451	0.003219 0.003056
43 7	42.3 0.0995	716.9 0.002339	-2.5 -3.4	8.34 2.43	2.4 -0.62	0.7018 0.6383	0.070555 0.070548	0.001385 0.001694	-0.000434 -0.000301	-0.001217 0.001082	0.00304 0.002883
43 8	63.6 0.1497	717 0.002332	-3.3 -4.9	8.15 2.05	4.2 -1.41	0.7342 0.6386	0.069279 0.069324	0.002775 0.001218	-0.001103 -0.000938	-0.001286 0.000432	0.002824 0.002752
43 9	63.7 0.1501	716 0.002331	-3.3 -6	8.33 2.14	4.2 -2.45	0.7332 0.6375	0.069935 0.07006	0.004186 0.000153	-0.000565 -0.000387	-0.001101 0.001901	0.003084 0.003112
43 10	63.6 0.1498	716.8 0.002333	-3.3 -4.4	8.03 1.72	4.3 -1.04	0.7338 0.6382	0.069508 0.069528	0.002353 0.001652	-0.000556 -0.000396	-0.001209 0.001216	0.002752 0.00278
43 11	84.8 0.2004	714.3 0.002322	-4.8 -7.4	8.98 1.59	6 -2.48	0.7638 0.6363	0.071418 0.071589	0.005047 0.000946	-0.000981 -0.0007	-0.001142 -0.000291	0.003319 0.003389
43 12	84.9 0.2009	713.5 0.002321	-4.8 -8.1	9.14 1.73	5.8 -3.11	0.7632 0.6355	0.070386 0.070618	0.005715 0.000195	-0.000931 -0.000632	-0.001231 -0.001603	0.003537 0.003602
43 13	84.9 0.2004	714.7 0.002321	-4.8 -6.6	8.64 1.31	5.9 -1.76	0.7641 0.6365	0.069744 0.069815	0.003772 0.002077	-0.000924 -0.000664	-0.001052 0.001517	0.003065 0.003131
43 14	106.3 0.2498	718.5 0.002308	-7.1 -11.2	10.49 1.37	6.8 -3.9	0.8001 0.6402	0.070454 0.070894	0.00793 -0.000839	-0.00145 -0.000894	-0.001239 -0.001039	0.00441 0.004556
43 15	106.4 0.2499	718.5 0.002308	-7.1 -11.2	10.43 1.41	6.6 -3.95	0.8001 0.6401	0.068332 0.068775	0.007821 -0.000685	-0.001462 -0.000909	-0.001254 -0.001569	0.004387 0.004534

RUN POINT	VKTS V/OR	VTIP RHO	ALPHA ALPHACP	THETA THETAI C	L/D/R THETAI S	MAT MTIP	CLRHS CLRHS/S	CXRHS CXRH/S	CMXHS CMXHS/S	CYRH/S CYRH/S	CMZH/S CP/S
43	106.3	719.9	-7.1	9.98	7	0.8013	0.070138	0.006253	-0.001329	-0.001062	0.003918
16	0.2492	0.002308	-9.7	1.01	-2.61	0.6414	0.070373	-0.002464	-0.000834	0.001282	0.004052
43	131.4	714.1	-9.6	13.05	6.9	0.8341	0.069047	0.011199	-0.002884	-0.001821	0.006211
17	0.3106	0.002288	-15.9	1.72	-5.92	0.6364	0.069947	-0.000473	-0.001808	-0.003038	0.006605
46	40.3	717.7	-2.5	8.04	2.2	0.7009	0.069811	0.002059	0.000138	-0.001688	0.003274
25	0.0949	0.002355	-4.1	2.55	-1.31	0.6401	0.069834	-0.000988	0.000281	-0.000478	0.00265
46	40.3	718.1	-2.5	7.94	2.2	0.7011	0.069433	0.000962	-0.000473	-0.001866	0.003109
26	0.0948	0.002349	-3.2	2.56	-0.37	0.6403	0.069409	-0.002067	-0.000336	0.001173	0.003127
46	40.3	718.1	-2.5	7.93	2.1	0.701	0.068538	0.00175	-0.000428	-0.001851	0.003173
27	0.0948	0.002349	-3.8	2.7	-0.98	0.6403	0.068549	-0.001242	-0.00029	-8.20E-05	0.003189
46	61.2	716.4	-3.3	7.95	3.9	0.7315	0.070446	0.003143	9.0E-06	-0.001521	0.00309
22	0.1442	0.002344	-5.5	1.9	-2.01	0.6393	0.07051	-0.000917	0.000187	-0.000741	0.003085
46	61.2	717.4	-3.3	7.69	3.9	0.7323	0.070509	0.001775	-0.000563	-0.001674	0.00281
23	0.144	0.002344	-4.3	1.86	-0.83	0.6401	0.070494	-0.002286	-0.0004	0.001461	0.002837
46	61.2	716.3	-3.3	7.75	3.8	0.7314	0.069091	0.002562	-0.000522	-0.001684	0.002936
24	0.1443	0.002344	-4.9	2.01	-1.45	0.6392	0.069123	-0.001419	-0.000352	-2.60E-05	0.002962
46	83.2	715.9	-4.8	8.63	5.5	0.7649	0.069793	0.00498	-7.10E-05	-0.001298	0.003485
19	0.1962	0.002337	-7.7	1.32	-2.86	0.6394	0.069965	-0.000878	0.000221	-0.000794	0.003478
46	83.3	714.4	-4.8	8.23	5.6	0.7636	0.069415	0.003439	-0.000869	-0.001582	0.003065
20	0.1967	0.002337	-6.4	1.37	-1.55	0.6381	0.069459	-0.002381	-0.000609	0.001526	0.003127
46	83.2	713.1	-4.8	8.59	5.5	0.7624	0.069882	0.004668	-0.000554	-0.001531	0.003407
21	0.197	0.002337	-7.4	1.51	-2.55	0.6369	0.070028	-0.001196	-0.000267	-0.000586	0.003441

RUN POINT	VKTS V/OR	VTIP RHO	ALPHA ALPHCP	THETA THETAC	L/DR THETAIS	MAT MTP	CLRHS CLRHS/S	CXRHS CXRH/S	CMXHS CMXH/S	CYRH/S CYRH/S	CMZH/S CP/S
46 16	108 0.2537	718.5 0.002325	-7.1 -11.3	10.22 0.91	6.8 -4.22	0.8052 0.6423	0.068198 0.068647	0.007863 -0.000627	-0.000348 0.000216	-0.000905 -0.001376	0.004539 0.004547
46 17	107.6 0.2535	716.4 0.002325	-7.1 -9.9	9.77 1.09	7.3 -2.8	0.8027 0.6404	0.071439 0.071683	0.00641 -0.002469	-0.001368 -0.000865	-0.001427 0.001452	0.003981 0.004119
46 18	107.9 0.2541	716.9 0.002325	-7.1 -11.3	10.22 1.35	6.9 -4.03	0.8037 0.6408	0.069727 0.070172	0.007929 -0.00075	-0.001158 -0.000594	-0.001552 -0.001595	0.004487 0.004596
46 13	132.7 0.314	713.4 0.002315	-9.6 -15.2	12.58 0.72	7.4 -5.55	0.8402 0.6394	0.069452 0.070267	0.010715 -0.001017	-0.001249 -0.000198	-0.000668 -0.001118	0.006195 0.006316
46 14	132.6 0.3133	714.4 0.002312	-9.6 -13.9	12.04 0.94	7.6 -4.25	0.8402 0.6397	0.069642 0.070222	0.009326 -0.002419	-0.002152 -0.001203	-0.001118 0.000796	0.005514 0.005795
46 15	132.8 0.3134	715.1 0.002309	-9.6 -15.9	12.75 1.64	7.4 -6	0.8406 0.6401	0.07058 0.071487	0.01136 -0.000569	-0.002948 -0.001882	-0.001189 -0.002242	0.006143 0.006548
46 28	44.2 0.1039	717.2 0.002348	-1.7 -3.8	9.57 2.83	2.3 -1.76	0.706 0.6395	0.090382 0.090388	0.001548 -0.001134	0.000286 0.000413	-0.000267 -0.000143	0.004273 0.004262
46 29	44.1 0.1038	718 0.002347	-1.7 -3	9.4 2.99	2.3 -0.89	0.7065 0.6401	0.090034 0.090002	0.000267 -0.002404	-0.000508 -0.000389	-0.0002487 0.0001372	0.004273 0.004034
46 30	44.2 0.104	717.8 0.002347	-1.7 -3	9.38 3.24	2.3 -0.9	0.7065 0.6408	0.089292 0.089265	0.00042 -0.002229	-0.00106 -0.000939	-0.0002857 0.0001372	0.004021 0.004084
46 31	56.4 0.1325	718.6 0.002344	-2.5 -4.8	9.25 2.62	3.3 -2	0.7258 0.6408	0.088473 0.088511	0.002801 -0.001061	-0.000484 -0.000312	-0.000288 -0.000283	0.003924 0.003941
46 32	56.4 0.1329	716.3 0.002343	-2.5 -3.8	9.09 2.38	3.3 -1.09	0.7237 0.6388	0.088584 0.088553	0.001217 -0.002648	-0.000604 -0.000442	-0.001979 0.001833	0.003691 0.003714

RUN POINT	VKTS V/OR	VTIP RHO	ALPHA ALPHACP	THETA THETAIC	L/DR THETAIIS	MAT MTP	CLRHS CLRHS/S	CXRHS CXRHS/S	CMXH/S CMXHS/S	CYRH/S CYRH/S	CMZH/S CMYH/S	CP/S
46	56.4	716.2	-2.5	9.3	3.3	0.7236	0.089529	0.002441	-0.000557	-0.002118	0.003928	
33	0.133	0.002343	-4.6	2.6	-1.82	0.6386	0.08955	-0.001466	-0.000385	0.000264	0.003948	
46	82.5	717.1	-3.9	9.88	5.3	0.7643	0.08908	0.005388	-0.000379	-0.001516	0.004295	
34	0.1942	0.002334	-7.5	1.79	-3.49	0.64	0.08924	-0.000684	-8.60E-05	-0.000779	0.004311	
46	82.6	716.3	-3.9	9.47	5.4	0.7635	0.088987	0.003214	-0.000756	-0.001621	0.003768	
35	0.1946	0.002333	-6.1	1.62	-2.11	0.6392	0.088999	-0.002846	-0.000498	0.002029	0.003811	
46	82.7	717.5	-3.9	9.75	5.3	0.7648	0.088277	0.004997	-0.001165	-0.002111	0.004158	
36	0.1944	0.002333	-7.3	2.1	-3.2	0.6403	0.088412	-0.001018	-0.00088	-0.000521	0.004228	



Appendix E—Hover Dynamic Data

The hover dynamic structural loads are presented in the following tables. For each of the measurements tabulated, the time-averaged mean, root-mean-square value, and the one-half peak-to-peak value (absolute maximum minus the absolute minimum divided by 2) are presented. Data

are organized and presented in the same run and point order as in Appendix B. Measurements with zero values indicate that the instrumentation for that particular channel was not functioning properly during that run, or was considered unreliable for that particular data point. Definition of the measurements in the following tables is presented below.

Measurement Descriptions

Measurement Type	Blade No.	Location, r/R	Units	Positive Sign Convention
Flap Bending	1	0.144	in.-lb	tip up
Flap Bending	1	0.167	in.-lb	tip up
Flap Bending	1	0.215	in.-lb	tip up
Flap Bending	1	0.280	in.-lb	tip up
Flap Bending	1	0.325	in.-lb	tip up
Flap Bending	1	0.570	in.-lb	tip up
Flap Bending	1	0.725	in.-lb	tip up
Flap Bending	1	0.800	in.-lb	tip up
Flap Bending	1	0.900	in.-lb	tip up
Chord Bending	1	0.144	in.-lb	leading edge tension
Chord Bending	1	0.570	in.-lb	leading edge tension
Torsional Moment	1	0.400	in.-lb	pitch up
Flap Bending	2	0.144	in.-lb	tip up
Chord Bending	2	0.144	in.-lb	leading edge tension
Flap Bending	3	0.144	in.-lb	tip up
Chord Bending	3	0.144	in.-lb	leading edge tension
Chord Bending	3	0.174	in.-lb	leading edge tension
Chord Bending	3	0.325	in.-lb	leading edge tension
Chord Bending	3	0.450	in.-lb	leading edge tension
Torsional Moment	3	0.400	in.-lb	pitch up
Flap Bending	4	0.144	in.-lb	tip up
Chord Bending	4	0.144	in.-lb	leading edge tension
Torsional Moment	4	0.400	in.-lb	pitch up
Pitch Link	1	—	lb	tension

RUN/POINT		Flap Bending, in-lb			Flap Bending, in-lb			Flap Bending, in-lb			Flap Bending, in-lb		
		Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	
MEAN	-4203.4	-2261.4	-607.2	164.8	197.8	12.6							
RMS	310.1	187.3	99.4	101.2	99.3	78							
1/2 P-P	583.3	336.6	228.5	291.4	268.8	229.9							
RUN/POINT		Flap Bending, in-lb			Flap Bending, in-lb			Chord Bending, in-lb			Torsion, in-lb		
		Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.144	Blade 1, r/R=0.144	Blade 1, r/R=0.144	Blade 1, r/R=0.144	Blade 1, r/R=0.144	Blade 1, r/R=0.400	Blade 1, r/R=0.400	
MEAN	-8.5	-76.7	3.3	-8916.4	-3077.8	-276.8							
RMS	153.8	193.1	182.7	653.5	289	14.5							
1/2 P-P	314.7	545.1	471.4	1188.2	722.7	38.2							
RUN/POINT		Chord Bending, in-lb			Chord Bending, in-lb			Chord Bending, in-lb			Chord Bending, in-lb		
		Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.174	Blade 3, r/R=0.325	Blade 3, r/R=0.325	
MEAN	-4398.1	-6751.3	-4352.5	-7105.9	-3921.6	-1428.3							
RMS	324.3	658.7	327.3	721	589	404.3							
1/2 P-P	599.6	1178.4	584.4	1303.5	1044.2	766.2							
RUN/POINT		Torsion, in-lb			Flap Bending, in-lb			Chord Bending, in-lb			Pitch Link, lb		
		Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 4, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 4, r/R=0.400	Blade 1	Blade 1	
MEAN	-2031.4	-274.4	-4140.3	-8242.4	-8242.4	-62.1							
RMS	350.3	17.8	322.5	697.4	14.2	8.7							
1/2 P-P	834.5	42.5	583.9	1254.6	38.3	18.7							
RUN/POINT		Flap Bending, in-lb			Flap Bending, in-lb			Flap Bending, in-lb			Flap Bending, in-lb		
		Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	
MEAN	-4123.6	-2211.2	-587.6	176.2	205.9	13							
RMS	199	118.6	68.5	76.9	75	69.4							
1/2 P-P	403.1	225.9	175	193.8	192.9	194.2							

RUN/POINT		Flap Bending, in-lb	Blade 1, r/R=0.800	Flap Bending, in-lb	Blade 1, r/R=0.900	Chord Bending, in-lb	Blade 1, r/R=0.144	Chord Bending, in-lb	Blade 1, r/R=0.570	Torsion, in-lb	Blade 1, r/R=0.400
12/ 6	MEAN	-21	-87	9.4	-8819.9	-3052.3	-285.2				
	RMS	104.8	139.4	142.2	493.3	225.6	16				
	1/2 P-P	267.8	341.1	362.6	997.7	610.3	41.1				
RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Blade 3, r/R=0.144	Chord Bending, in-lb	Blade 3, r/R=0.144	Chord Bending, in-lb	Blade 3, r/R=0.174	Chord Bending, in-lb	Blade 3, r/R=0.325	
12/ 6	MEAN	-4329.3	-6670.5	-4287.4	-7023.5	-3849.2	-1388				
	RMS	207.1	521.2	213.8	574.7	474	321.4				
	1/2 P-P	400.3	998.6	420.5	1032.3	859.5	700.4				
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Blade 4, r/R=0.144	Chord Bending, in-lb	Blade 4, r/R=0.144	Chord Bending, in-lb	Blade 4, r/R=0.400	Pitch Link, lb		
12/ 6	MEAN	-1984	-284.8	-4063.1	-8151.3	-335.6	-73.5				
	RMS	272.7	17.3	204.4	541.7	15	10.2				
	1/2 P-P	651.8	40.7	388.5	1051.8	40	22.2				
RUN/POINT	Flap Bending, in-lb	Flap Bending, in-lb	Flap Bending, in-lb	Blade 1, r/R=0.215	Flap Bending, in-lb	Blade 1, r/R=0.280	Flap Bending, in-lb	Blade 1, r/R=0.325	Flap Bending, in-lb	Blade 1, r/R=0.570	
12/ 7	MEAN	-3529.2	-1839.3	-442.1	230.4	244.5	37.3				
	RMS	394.5	237.1	107.2	75.9	74.7	96.6				
	1/2 P-P	720.5	418.9	229	214.6	219.1	277.1				
RUN/POINT	Flap Bending, in-lb	Flap Bending, in-lb	Flap Bending, in-lb	Blade 1, r/R=0.900	Chord Bending, in-lb	Blade 1, r/R=0.144	Chord Bending, in-lb	Blade 1, r/R=0.570	Torsion, in-lb	Blade 1, r/R=0.400	
12/ 7	MEAN	-11.4	-90.9	0.4	-8168.6	-2996.3	-318.6				
	RMS	129.1	159.2	138.9	845.7	281.4	15.3				
	1/2 P-P	318.8	389	330.1	1450.4	817.5	37.4				

RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
12/ 7	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174
MEAN	-3727.3	-6059.3	-3679	-6409.3	-3299.7
RMS	400.1	842.4	406.2	923.3	755.6
1/2 P-P	736.5	1382.5	756.1	1479.3	1213.5
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Pitch Link, lb
12/ 7	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400
MEAN	-1877.5	-318.6	-3459.1	-7559.5	-374
RMS	363.8	18	398.5	880.2	14.3
1/2 P-P	778	48	725.6	1462.3	38.6
RUN/POINT	Flap Bending, in-lb	Flap Bending, in-lb	Flap Bending, in-lb	Flap Bending, in-lb	Flap Bending, in-lb
12/ 8	Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325
MEAN	-2853.2	-1421.2	-279.2	289.6	285
RMS	643.7	388.3	171.1	112.8	116.5
1/2 P-P	1038.1	618.5	312.4	263.4	266.3
RUN/POINT	Flap Bending, in-lb	Flap Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb
12/ 8	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.570
MEAN	21.4	-75.9	-34.3	-7534.8	-2938.3
RMS	212	249.7	187.5	1277	458.2
1/2 P-P	486.5	582	455.5	2068.6	1097.3
RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
12/ 8	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174
MEAN	-3029	-5452.7	-2991.5	-5765.5	-2718.5
RMS	667	1280.3	666.3	1365.5	1104.5
1/2 P-P	1066.9	1995.5	1082.7	2180.4	1766

RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
MEAN	-1751.6	-344.8	-2792.5	-6941.4	-407.2	-95.6
RMS	569.6	18.1	647.4	1290.9	14.7	21.7
1/2 P-P	1247.2	49.3	1051.9	2119.1	40.1	41.2
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.144	Flap Bending, in-lb Blade 1, r/R=0.167	Flap Bending, in-lb Blade 1, r/R=0.215	Flap Bending, in-lb Blade 1, r/R=0.280	Flap Bending, in-lb Blade 1, r/R=0.325	Flap Bending, in-lb Blade 1, r/R=0.570
MEAN	-2180.6	-1006.7	-112.1	362.6	344.2	148.7
RMS	350.4	208.3	108.5	124.2	132.5	126.1
1/2 P-P	686.9	404.4	274.9	350	349.7	318.5
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800	Flap Bending, in-lb Blade 1, r/R=0.900	Chord Bending, in-lb Blade 1, r/R=0.144	Chord Bending, in-lb Blade 1, r/R=0.570	Torsion, in-lb Blade 1, r/R=0.400
MEAN	76.7	-42.4	-62.4	-6630.9	-2853.1	-368.2
RMS	253.3	299.3	244	822	443.1	24.2
1/2 P-P	659.8	730.5	633.6	1683.4	1159	71.4
RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
MEAN	-2342.2	-4606.3	-2279.6	-4943.5	-2011.3	-599.3
RMS	374.6	876.7	379.9	919.3	746.9	529.6
1/2 P-P	717.4	1693.1	780.7	1773.6	1441.2	1167.4
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
MEAN	-1610.5	-3633.2	-2115.8	-6149	-432	-97.5
RMS	498.9	26	359.4	848.7	22.1	15
1/2 P-P	1295.8	70.6	735.2	1611.2	64.6	29.5

RUN/POINT	Flap Bending, in-lb	Flap Bending, in-lb	Flap Bending, in-lb	Flap Bending, in-lb	Flap Bending, in-lb
12/10	Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325
MEAN	-1628.6	-660.2	28.4	423.4	389.5
RMS	336.9	196.1	109.6	156	168.5
1/2 P-P	784.2	451.9	305.2	442.9	498.1
RUN/POINT	Flap Bending, in-lb	Flap Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb
12/10	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.570
MEAN	106.5	-30.2	-112.2	-5894.9	-2785.5
RMS	293.9	363.1	310.3	509.5	966.2
1/2 P-P	843.4	1073.8	998.4	1313.9	2414.9
RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
12/10	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174
MEAN	-1810.3	-3882.9	-1729.1	-4217.6	-1363.1
RMS	343.6	471.7	325.8	471.6	379.3
1/2 P-P	818.5	1238.9	752.3	1220.5	1062.1
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb
12/10	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Pitch Link, lb
MEAN	-1473.8	-393.3	-1577.6	-5493.6	-466.8
RMS	954.5	21.6	328.9	519.6	19.5
1/2 P-P	2516.6	57.4	758.7	1455.8	50.7
RUN/POINT	Flap Bending, in-lb	Flap Bending, in-lb	Flap Bending, in-lb	Flap Bending, in-lb	Flap Bending, in-lb
12/11	Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325
MEAN	-784	-138.5	239	518.4	466.4
RMS	463.8	273.8	127.4	139.7	156.4
1/2 P-P	1003.9	565.6	313	381.4	410.3

RUN/POINT 12/11	Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800	Flap Bending, in-lb Blade 1, r/R=0.900	Flap Bending, in-lb Blade 1, r/R=0.144	Chord Bending, in-lb Blade 1, r/R=0.144	Chord Bending, in-lb Blade 1, r/R=0.570	Torsion, in-lb Blade 1, r/R=0.400
MEAN	121.3	-50.5	-199.9	-4811.3	-2642.5	-419.5	
RMS	284.6	302.2	248.2	1129.3	707.1	30.4	
1/2 P-P	787.4	854.3	757.2	2414.8	1868.5	75.7	
RUN/POINT 12/11	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325	
MEAN	-945.9	-2900	-840.6	-3177.8	-464.9	72.8	
RMS	472.2	1152.6	469.6	1205.2	989.7	689.6	
1/2 P-P	983.7	2490	973.8	2387.5	1995.5	1905.2	
RUN/POINT 12/11	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1	
MEAN	-1282.8	-413	-734.7	-4471.5	-495.6	-97.8	
RMS	652.3	29	471.8	1156.2	26.1	15.6	
1/2 P-P	1648	77.1	998.6	2323.5	73.6	35.2	
RUN/POINT 12/12	Flap Bending, in-lb Blade 1, r/R=0.144	Flap Bending, in-lb Blade 1, r/R=0.167	Flap Bending, in-lb Blade 1, r/R=0.215	Flap Bending, in-lb Blade 1, r/R=0.280	Flap Bending, in-lb Blade 1, r/R=0.325	Flap Bending, in-lb Blade 1, r/R=0.570	
MEAN	-114	275.5	397.7	578.4	508.2	306.2	
RMS	489.7	293.3	147	163.8	179.2	224.3	
1/2 P-P	1120	687.6	363.9	453.8	507.1	587	
RUN/POINT 12/12	Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800	Flap Bending, in-lb Blade 1, r/R=0.900	Chord Bending, in-lb Blade 1, r/R=0.144	Chord Bending, in-lb Blade 1, r/R=0.570	Torsion, in-lb Blade 1, r/R=0.400	
MEAN	121.3	-103.1	-301.2	-3840.5	-2503.2	-445.3	
RMS	329.1	364.1	309	1086.1	586.5	35.5	
1/2 P-P	835.1	1142.3	1132.7	2755.9	1460.8	91.7	

RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
12/12	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174
MEAN	-265.5	-1983.6	-155.7	-2158.1	432
RMS	502.5	984.9	520.9	991.7	803.3
1/2 P-P	1159.5	2594.8	1112.2	2486.9	2106.4
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Pitch Link, lb
12/12	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 1
MEAN	-1050.1	-438.7	-84.7	-3430.6	-94.3
RMS	622.3	35.2	505.1	1046.7	16.8
1/2 P-P	1666.4	88.6	1102.8	2847.8	37.6
RUN/POINT	Flap Bending, in-lb	Flap Bending, in-lb	Flap Bending, in-lb	Flap Bending, in-lb	Flap Bending, in-lb
12/13	Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325
MEAN	752.5	812.7	611.8	672.3	580.6
RMS	571.1	335.9	174.1	228.5	249.4
1/2 P-P	1279.8	746.6	440	592.8	612.9
RUN/POINT	Flap Bending, in-lb	Flap Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb
12/13	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.570
MEAN	162.4	-80.3	-359.7	-2787.2	-2374.5
RMS	453.2	524.9	427.1	1319.6	1366.3
1/2 P-P	1118.5	1396.5	1311.8	2734.3	3216.9
RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
12/13	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174
MEAN	565.5	-946.7	752.1	-1367.2	1150.2
RMS	575.3	1303.8	569.5	1251.5	1033.4
1/2 P-P	1269.7	2707	1194.5	2651.3	2302.5
					808
					1081.5
					2475.4

RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
MEAN	-938.8	-458.6	776.3	-2479	-553.1	-83.7
RMS	1307.5	40.8	578.6	1293	36.7	16.7
1/2 P-P	2951.6	113.6	1281.9	2675.2	100.5	37.5
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.144	Flap Bending, in-lb Blade 1, r/R=0.167	Flap Bending, in-lb Blade 1, r/R=0.215	Flap Bending, in-lb Blade 1, r/R=0.280	Flap Bending, in-lb Blade 1, r/R=0.325	Flap Bending, in-lb Blade 1, r/R=0.570
MEAN	1493.1	1271.1	785.5	731.5	617.6	398.9
RMS	711.9	437	227.8	196.8	194.6	252.6
1/2 P-P	1459.9	904.8	540.7	529.6	462.1	687
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800	Flap Bending, in-lb Blade 1, r/R=0.900	Chord Bending, in-lb Blade 1, r/R=0.144	Chord Bending, in-lb Blade 1, r/R=0.570	Torsion, in-lb Blade 1, r/R=0.400
MEAN	176.4	-93.5	-423.1	-1666.2	-2201	-481.7
RMS	388.8	441.8	376.5	2080.9	2635.4	53.5
1/2 P-P	1095.5	1099.4	1013.4	4171.3	6385.4	131.8
RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
MEAN	1299.7	259.1	1549.8	-662.5	1793.3	1111.2
RMS	701.6	1967.6	704.7	1920.2	1611.6	1945.4
1/2 P-P	1433.4	3700.7	1615	3760	3087.4	5161
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
MEAN	-758.2	-476.2	1506.3	-1397	-574.4	-76.6
RMS	2443.2	52.4	703.8	1985.7	45	20.2
1/2 P-P	6217.4	132.3	1563.1	3947	118.1	43.4

RUN/POINT	Flap Bending, in-lb	Blade 1, r/R=0.144	Flap Bending, in-lb	Blade 1, r/R=0.167	Flap Bending, in-lb	Blade 1, r/R=0.215	Flap Bending, in-lb	Blade 1, r/R=0.280	Flap Bending, in-lb	Blade 1, r/R=0.325	Flap Bending, in-lb	Blade 1, r/R=0.570
12/15	2284.9	1764.1	991.4	835.6	710.7	577.4	577.4	577.4	710.7	759.5	571.1	571.1
MEAN	546.3	309.7	127.3	204.7	251.6	432.3	432.3	432.3	614.2	837.7	325.9	325.9
RMS	1437.3	840.1	371.2	551.3	614.2	975.5	975.5	975.5			745.5	745.5
RUN/POINT												
Flap Bending, in-lb												
12/15	Flap Bending, in-lb	Blade 1, r/R=0.725	Flap Bending, in-lb	Blade 1, r/R=0.800	Flap Bending, in-lb	Blade 1, r/R=0.900	Chord Bending, in-lb	Blade 1, r/R=0.144	Chord Bending, in-lb	Blade 1, r/R=0.570	Torsion, in-lb	Blade 1, r/R=0.400
MEAN	314.9	-14.5	-469.7	-660.2	-2173.7	-463.3						
RMS	470.9	468.6	373.7	1383.3	2098.6	72.9						
1/2 P-P	1259.9	1165.1	1021.4	2950.6	4995.1	194.8						
RUN/POINT												
Flap Bending, in-lb												
12/15	Flap Bending, in-lb	Blade 2, r/R=0.144	Chord Bending, in-lb	Blade 3, r/R=0.144	Flap Bending, in-lb	Blade 3, r/R=0.144	Chord Bending, in-lb	Blade 3, r/R=0.144	Chord Bending, in-lb	Blade 3, r/R=0.174	Chord Bending, in-lb	Blade 3, r/R=0.325
MEAN	2075.1	1202.9	2346.9	313.5	2663.9	1493.3						
RMS	579.6	1209.1	574.3	1251.2	1043.8	1485.2						
1/2 P-P	1467.8	2811	1468.1	2836.2	2371.6	3681.5						
RUN/POINT												
Chord Bending, in-lb												
12/15	Chord Bending, in-lb	Blade 3, r/R=0.450	Torsion, in-lb	Blade 3, r/R=0.400	Flap Bending, in-lb	Blade 4, r/R=0.144	Chord Bending, in-lb	Blade 4, r/R=0.144	Chord Bending, in-lb	Blade 4, r/R=0.400	Pitch Link, lb	Blade 1, r/R=0.325
MEAN	-609.9	-459.4	2229.7	-419	-568.5	-53.4						
RMS	2006.1	71.4	581.9	1336.4	63.6	13.1						
1/2 P-P	4834.8	210.4	1365.9	2938.5	172.6	37						
RUN/POINT												
Flap Bending, in-lb												
12/16	Flap Bending, in-lb	Blade 1, r/R=0.144	Flap Bending, in-lb	Blade 1, r/R=0.167	Flap Bending, in-lb	Blade 1, r/R=0.215	Flap Bending, in-lb	Blade 1, r/R=0.280	Flap Bending, in-lb	Blade 1, r/R=0.325	Flap Bending, in-lb	Blade 1, r/R=0.570
MEAN	3158.1	2305.4	1198.4	915.2	759.5	571.1						
RMS	618	360.2	168.9	236.4	275.6	325.9						
1/2 P-P	1437.6	800.8	426.7	673.8	837.7	745.5						

RUN/POINT	Flap Bending, in-lb	Blade 1, r/R=0.800	Flap Bending, in-lb	Blade 1, r/R=0.900	Flap Bending, in-lb	Blade 1, r/R=0.144	Chord Bending, in-lb	Blade 1, r/R=0.570	Torsion, in-lb	Blade 1, r/R=0.400
12/16					-569.1	59.4	-2013.1		-472.7	
MEAN	283.2	-84.9	413.3	1193	413.3	1774.7	1454.9	3840.5	62.5	
RMS	487.2	533.5	1500.4		1193	3747.8	3840.5		163.4	
1/2 P-P	1410.5									
RUN/POINT	Flap Bending, in-lb	Blade 2, r/R=0.144	Chord Bending, in-lb	Blade 3, r/R=0.144	Flap Bending, in-lb	Blade 3, r/R=0.144	Chord Bending, in-lb	Blade 3, r/R=0.174	Chord Bending, in-lb	Blade 3, r/R=0.325
12/16					3256.1	1195	3482		1817.2	
MEAN	2939.2	1785.6	619.3	1491.8	619.3	1588.3	1308.1	2835.9	1193.8	
RMS	620.9	1566.6	3290.1		1491.8	3431.2			3081.6	
1/2 P-P	1511									
RUN/POINT	Chord Bending, in-lb	Blade 3, r/R=0.450	Torsion, in-lb	Blade 3, r/R=0.400	Flap Bending, in-lb	Blade 4, r/R=0.144	Chord Bending, in-lb	Blade 4, r/R=0.400	Torsion, in-lb	Pitch Link, lb
12/16					3129.6	23.9	-586.9			Blade 1
MEAN	-424.8	-469.4	60.1	141.3	610.5	1623.6	48.8		-39.5	
RMS	1434.1	60.1	141.3		1428.7	3515.1	132.1		14.2	
1/2 P-P	3925.4								37.1	
RUN/POINT	Flap Bending, in-lb	Blade 1, r/R=0.167	Flap Bending, in-lb	Blade 1, r/R=0.215	Flap Bending, in-lb	Blade 1, r/R=0.280	Flap Bending, in-lb	Blade 1, r/R=0.325	Flap Bending, in-lb	Blade 1, r/R=0.570
12/17					1454.8	1032.2	854.5		678.6	
MEAN	4150.5	2919.2	312.4	931.9	173.3	237.7	260.3		340.2	
RMS	537.4				481.1	568.9	651		890.5	
1/2 P-P	1536.7									
RUN/POINT	Flap Bending, in-lb	Blade 1, r/R=0.725	Flap Bending, in-lb	Blade 1, r/R=0.800	Flap Bending, in-lb	Blade 1, r/R=0.900	Chord Bending, in-lb	Blade 1, r/R=0.570	Torsion, in-lb	Blade 1, r/R=0.400
12/17					-603.6	1262.7	-1938.1		-464	
MEAN	316.2	-73.8	562.6	1544.3	479.6	1584.1	2086.3		76.7	
RMS	498.6				1336.2	3999.9	4915.7		207.9	
1/2 P-P	1380.3									

RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
12/17	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174
MEAN	3914.4	3000.3	4216.9	2527.2	4669.4
RMS	582.9	1581	592.5	1535.5	1293.9
1/2 P-P	1580.4	4157.2	1663.3	3612.9	3103.5
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb
12/17	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400
MEAN	-169.2	-452.4	3996.3	1351.6	-592.5
RMS	2108.9	74.8	565.2	1617.3	74
1/2 P-P	5569.5	203.5	1572.1	4336.3	168.5
RUN/POINT	Flap Bending, in-lb	Flap Bending, in-lb	Flap Bending, in-lb	Flap Bending, in-lb	Flap Bending, in-lb
12/18	Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325
MEAN	4762.8	3296.2	1606.8	1093.6	898.7
RMS	512.5	289.7	145.6	240.8	281.7
1/2 P-P	1267.7	726.4	424.8	666.4	762.4
RUN/POINT	Flap Bending, in-lb	Flap Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb
12/18	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.570
MEAN	260.1	-178.5	-734.9	2697.6	-1622.3
RMS	518.4	603.9	472.6	1160.7	1933.9
1/2 P-P	1330.1	1477.9	1321.8	3012.2	4164.4
RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
12/18	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174
MEAN	4537.1	4323.4	4987.7	3772	5771.6
RMS	532.4	1079.8	526.1	1031.3	852
1/2 P-P	1334.1	3023.9	1263.8	2597.9	2319.1

RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
MEAN	190.7	-440.4	4650.4	2502.3	-593.4	4.2
RMS	1693.3	79.7	510.7	1172.8	62.9	15.1
1/2 P-P	4010.9	208.8	1313.3	2860.8	162.8	43.4
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.144	Flap Bending, in-lb Blade 1, r/R=0.167	Flap Bending, in-lb Blade 1, r/R=0.215	Flap Bending, in-lb Blade 1, r/R=0.280	Flap Bending, in-lb Blade 1, r/R=0.325	Flap Bending, in-lb Blade 1, r/R=0.570
MEAN	-4217.5	-2273	-615.9	160.4	192.8	19
RMS	267.8	163.4	89	87.9	82.1	74
1/2 P-P	491.8	290.3	223.2	236.4	222.1	194.3
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800	Flap Bending, in-lb Blade 1, r/R=0.900	Chord Bending, in-lb Blade 1, r/R=0.144	Chord Bending, in-lb Blade 1, r/R=0.570	Torsion, in-lb Blade 1, r/R=0.400
MEAN	-66.1	-70.2	4.6	-8917.7	-3176	-277.8
RMS	253.9	149.4	165	334.2	195.7	16
1/2 P-P	1507.1	360.6	477.5	760.5	533.2	53.1
RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
MEAN	-4413.3	-6810	-4386.4	-7114.2	-3888.5	-1385.5
RMS	266	369.6	279.4	405	322.2	222
1/2 P-P	521.3	741.9	541.5	823.4	659.8	581.8
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
MEAN	-2054.6	-280.2	-4156.7	-8258.1	-330.5	-61.9
RMS	216.4	18.7	275.1	367.2	16.7	11.2
1/2 P-P	580.8	56.5	508.2	771	56.1	20.8

RUN/POINT	Flap Bending, in-lb	Blade 1, r/R=0.144	Flap Bending, in-lb	Blade 1, r/R=0.167	Flap Bending, in-lb	Blade 1, r/R=0.215	Flap Bending, in-lb	Blade 1, r/R=0.280	Flap Bending, in-lb	Blade 1, r/R=0.325	Flap Bending, in-lb	Blade 1, r/R=0.570
MEAN	-4800	-2632.2	-741.8	136.4	193	55						
RMS	280	137.5	97.6	230.5	272.9	100.3						
1/2 P-P	584.6	298.5	246.7	492.8	561.3	283.5						
RUN/POINT	Flap Bending, in-lb	Blade 1, r/R=0.725	Flap Bending, in-lb	Blade 1, r/R=0.800	Flap Bending, in-lb	Blade 1, r/R=0.900	Chord Bending, in-lb	Blade 1, r/R=0.144	Chord Bending, in-lb	Blade 1, r/R=0.570	Torsion, in-lb	Blade 1, r/R=0.400
MEAN	-13.6	-117.3	-50	-9538.6	-3208	-214.4						
RMS	514.1	633.6	469.2	360.9	739.3	22.6						
1/2 P-P	874.3	1169.7	944.5	737.2	1359.4	50.9						
RUN/POINT	Flap Bending, in-lb	Blade 2, r/R=0.144	Chord Bending, in-lb	Blade 2, r/R=0.144	Flap Bending, in-lb	Blade 3, r/R=0.144	Chord Bending, in-lb	Blade 3, r/R=0.144	Chord Bending, in-lb	Blade 3, r/R=0.174	Chord Bending, in-lb	Blade 3, r/R=0.325
MEAN	-5013.7	-7328.1	-4974.2	-7621.1	-4344.2	-1601.5						
RMS	278.1	306.9	271	378.7	212.2	493.1						
1/2 P-P	603.8	709.7	579.3	811.1	491.1	994.7						
RUN/POINT	Chord Bending, in-lb	Blade 3, r/R=0.450	Torsion, in-lb	Blade 3, r/R=0.400	Flap Bending, in-lb	Blade 4, r/R=0.144	Chord Bending, in-lb	Blade 4, r/R=0.144	Chord Bending, in-lb	Blade 4, r/R=0.400	Pitch Link, lb	Blade 1
MEAN	-2113.3	-213.8	-4730.9	-8809.3	-257.9	-47.4						
RMS	836.5	18.4	272.2	326.6	17.9	7.8						
1/2 P-P	1549.3	45.9	565.2	688.3	42.9	17.3						
RUN/POINT	Flap Bending, in-lb	Blade 1, r/R=0.144	Flap Bending, in-lb	Blade 1, r/R=0.167	Flap Bending, in-lb	Blade 1, r/R=0.215	Flap Bending, in-lb	Blade 1, r/R=0.280	Flap Bending, in-lb	Blade 1, r/R=0.325	Flap Bending, in-lb	Blade 1, r/R=0.570
MEAN	-4076.9	-2186.9	-581.4	172.5	200.1	1.1						
RMS	220.7	131.9	79.8	96.7	95.1	81.7						
1/2 P-P	481.2	281.9	236.1	269.1	270.7	224.2						

RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800	Flap Bending, in-lb Blade 1, r/R=0.900	Chord Bending, in-lb Blade 1, r/R=0.144	Chord Bending, in-lb Blade 1, r/R=0.570	Torsion, in-lb Blade 1, r/R=0.400
MEAN	-27.1	-88.1	9.2	-8762.6	-3102.3	-291.5
RMS	139.9	188.1	186.9	308.9	236.4	14.3
1/2 P-P	379.6	529.3	518.5	688.1	749.1	38.1
RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
MEAN	-4288.2	-6652.8	-4262.7	-6955.7	-3778.3	-1350.1
RMS	204	324.3	215.3	355.5	282.1	216.5
1/2 P-P	452.6	663.7	446.7	700.2	566.8	539.3
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
MEAN	-2001.1	-293.3	-4017.8	-8123.1	-340.1	-69.2
RMS	251	16.2	219.4	319.3	13.9	11.3
1/2 P-P	653.1	42.2	452.4	681	40.3	23.5
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.144	Flap Bending, in-lb Blade 1, r/R=0.167	Flap Bending, in-lb Blade 1, r/R=0.215	Flap Bending, in-lb Blade 1, r/R=0.280	Flap Bending, in-lb Blade 1, r/R=0.325	Flap Bending, in-lb Blade 1, r/R=0.570
MEAN	-3486.5	-1823.2	-440.1	223.7	234.9	25.3
RMS	335.2	203.9	96.6	73.7	68.8	96.8
1/2 P-P	616.4	390	230.8	177.9	158.8	236.4
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800	Flap Bending, in-lb Blade 1, r/R=0.900	Chord Bending, in-lb Blade 1, r/R=0.144	Chord Bending, in-lb Blade 1, r/R=0.570	Torsion, in-lb Blade 1, r/R=0.400
MEAN	-8.7	-80.5	15.2	-8106.8	-3032.9	-320.2
RMS	128.9	144.9	150.7	555	264.5	16.8
1/2 P-P	341.2	361.7	415.5	1045.9	680.8	42.9

RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
13/ 7	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174
MEAN	-3689	-6045.4	-3652.1	-6347.5	-3251.1
RMS	336.5	560.7	350.5	615.1	497.4
1/2 P-P	610	1045.9	633.4	1208.9	978.1
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb
13/ 7	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400
MEAN	-1899.4	-321.3	-3417.1	-7522.1	-372.9
RMS	248.3	17.2	337.6	547.2	15.6
1/2 P-P	657	41.7	623.4	1064	35.8
RUN/POINT	Flap Bending, in-lb	Flap Bending, in-lb	Flap Bending, in-lb	Flap Bending, in-lb	Flap Bending, in-lb
13/ 8	Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325
MEAN	-2812.4	-1407.5	-272.9	294.7	292.3
RMS	521.7	314.9	138.2	98.1	98.9
1/2 P-P	967.9	569.1	307.8	271.3	272.7
RUN/POINT	Flap Bending, in-lb	Flap Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb
13/ 8	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.570
MEAN	56.5	-29.8	11	-7381.7	-2971.5
RMS	208.5	243	211.3	908.6	336.1
1/2 P-P	568.5	674.9	630.4	1631.7	932
RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
13/ 8	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174
MEAN	-2985.1	-5368.6	-2939.7	-5666.5	-2659
RMS	528.4	905.3	531	988.1	795.3
1/2 P-P	982.4	1669.3	975.4	1707.7	1407.2

RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Pitch Link, lb
	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1
MEAN	-1794	-337.1	-2740.5	-6854.4	-395.6	-70.7
RMS	413.6	22.3	518.8	942.9	19.4	14.1
1/2 P-P	1034.2	55.3	981.3	1619.8	49	29
RUN/POINT	Flap Bending, in-lb	Flap Bending, in-lb	Flap Bending, in-lb	Flap Bending, in-lb	Flap Bending, in-lb	Flap Bending, in-lb
13/9	Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.570
MEAN	-2101.9	-964.3	90.6	377.4	357.7	149
RMS	433.2	257.8	119.6	122.5	129.2	131.4
1/2 P-P	851.5	505.2	323.8	352.7	334	285.7
RUN/POINT	Flap Bending, in-lb	Flap Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb
13/9	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.400
MEAN	76.9	-35.7	-44.3	-6591.4	-2891.5	-375.8
RMS	265.5	318.6	272.6	767.8	464.7	26.2
1/2 P-P	716.9	787	775.5	1667.5	1218.4	65.7
RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
13/9	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	-2273.3	-4637.7	-2222.8	-4920.9	-2003.2	-593.4
RMS	427.6	776.5	422.3	824.6	662.9	508.6
1/2 P-P	874.9	1608.8	833.2	1743	1392.3	1269.4
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Pitch Link, lb
13/9	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1
MEAN	-1651.9	-372.6	-2048.7	-6140.8	-436.8	-91
RMS	497.2	26.5	433.4	806.9	22.2	11.3
1/2 P-P	1314.1	63.4	862.9	1666.4	50.9	23.7

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144	Flap Bending, in-lb Blade 1, r/R=0.167	Flap Bending, in-lb Blade 1, r/R=0.215	Flap Bending, in-lb Blade 1, r/R=0.280	Flap Bending, in-lb Blade 1, r/R=0.325	Flap Bending, in-lb Blade 1, r/R=0.570
13/10	MEAN	-1401.4	-532	80.7	448.6	412.5	201.9
	RMS	613.8	364.7	154.7	147.3	169.8	188.8
	1/2 P-P	1236.4	702	379.9	378.5	416.4	442.8
RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800	Flap Bending, in-lb Blade 1, r/R=0.900	Chord Bending, in-lb Blade 1, r/R=0.144	Chord Bending, in-lb Blade 1, r/R=0.570	Torsion, in-lb Blade 1, r/R=0.400
13/10	MEAN	137.4	12.4	-80.3	-5799.7	-2824.3	-397.1
	RMS	374.4	442.6	337.2	1186.7	555.7	29.2
	1/2 P-P	976.4	1062.6	886.9	2342.3	1427.7	65.4
RUN/POINT		Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
13/10	MEAN	-1566.2	-3893.6	-1507	-4098.6	-1283.1	-283.3
	RMS	613.3	1140.5	615.8	1226.4	985.2	680.5
	1/2 P-P	1246.5	2095.9	1263.6	2331.4	1902.5	1566.2
RUN/POINT		Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
13/10	MEAN	-1502.7	-392.3	-1366.8	-5375.2	-464.5	-94.2
	RMS	654.1	29.4	607.8	1193.2	24.5	15.5
	1/2 P-P	1574.3	61	1229.6	2250	52.2	29.6
RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144	Flap Bending, in-lb Blade 1, r/R=0.167	Flap Bending, in-lb Blade 1, r/R=0.215	Flap Bending, in-lb Blade 1, r/R=0.280	Flap Bending, in-lb Blade 1, r/R=0.325	Flap Bending, in-lb Blade 1, r/R=0.570
13/11	MEAN	-581.4	-24	279.9	522.6	460	252.8
	RMS	635.3	384.1	176.8	146.8	158.4	209.4
	1/2 P-P	1294.7	768.7	411.1	395.9	434	489.9

RUN/POINT	Flap Bending, in-lb	Flap Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb
13/11	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.400
MEAN	146.9	-20.3	-178	-4793.9	-2691.7	-426.2
RMS	358.3	416.4	322.8	1467.5	744.6	32.5
1/2 P-P	924.5	1165.6	1038.9	2848.2	1901.4	90.8
RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
13/11	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	-769.4	-2921.6	-675.4	-3121.6	-421.7	118.7
RMS	632.8	1425.1	642.1	1491.8	1214.4	829.6
1/2 P-P	1340.1	2746.7	1310.7	2984.8	2477.7	1962.2
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Pitch Link, lb
13/11	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1
MEAN	-1294.5	-420.3	-568.5	-4459.8	-501	-93.2
RMS	756.1	31	642.1	1450.6	27.6	18.1
1/2 P-P	1830.5	79.1	1304	2945.7	80.1	40.9
RUN/POINT	Flap Bending, in-lb	Flap Bending, in-lb	Flap Bending, in-lb	Flap Bending, in-lb	Flap Bending, in-lb	Flap Bending, in-lb
13/12	Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.570
MEAN	-55.3	301.2	410.6	590.5	524.5	351.3
RMS	559.5	330.9	159.2	166.8	173.5	242.9
1/2 P-P	1146	683.6	390.9	509.5	489.5	566.3
RUN/POINT	Flap Bending, in-lb	Flap Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb
13/12	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.400
MEAN	221.7	14.3	-219	-3961.5	-2631.3	-432.2
RMS	406.6	471.5	393.1	1278.6	670.1	45
1/2 P-P	1025.6	1299.9	1157.8	2468.8	1797.8	118.4

RUN/POINT 13/12	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
MEAN	-213.4	-2155	-86.8	-2404.2	204.2	377.1
RMS	555.1	1213.2	544.1	1238.1	1004	699.4
1/2 P-P	1198.3	2254.8	1153.6	2324.9	1978.8	1806.1
RUN/POINT 13/12	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
MEAN	-1198.3	-423.4	-25.2	-3660.7	-511.6	-88.3
RMS	713.5	43.6	553.3	1313.6	36.6	8.7
1/2 P-P	1910.7	101.6	1124.9	2580.6	82.2	23.4
RUN/POINT 13/13	Flap Bending, in-lb Blade 1, r/R=0.144	Flap Bending, in-lb Blade 1, r/R=0.167	Flap Bending, in-lb Blade 1, r/R=0.215	Flap Bending, in-lb Blade 1, r/R=0.280	Flap Bending, in-lb Blade 1, r/R=0.325	Flap Bending, in-lb Blade 1, r/R=0.570
MEAN	727.2	785.6	600.3	662.5	573.1	390.1
RMS	553.6	324	131.8	165.2	201.1	344.7
1/2 P-P	1185.9	672.1	340.6	458	537.9	764.2
RUN/POINT 13/13	Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800	Flap Bending, in-lb Blade 1, r/R=0.900	Chord Bending, in-lb Blade 1, r/R=0.144	Chord Bending, in-lb Blade 1, r/R=0.570	Torsion, in-lb Blade 1, r/R=0.400
MEAN	208.9	-21.9	-300.6	-3021	-2494.1	-456.6
RMS	424.2	472.7	376.2	786	1258.9	52.4
1/2 P-P	1051.6	1197.9	1104.8	1982.8	3016.2	148.8
RUN/POINT 13/13	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
MEAN	544.6	-1223	713.7	-1719	812.3	631.3
RMS	556.7	800.4	536.8	764.5	612.3	871.2
1/2 P-P	1156.6	2124.1	1119.3	1983	1598.5	2310.5

RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Pitch Link, lb
	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 4, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1
MEAN	-1059.4	-448.2	727.3	-2758.2	-541.5	-79.7
RMS	1154.7	49.8	560.6	810.2	43.6	13.7
1/2 P-P	2871.3	124.7	1096.4	1993	104.7	29.3
RUN/POINT	Flap Bending, in-lb	Flap Bending, in-lb	Flap Bending, in-lb	Flap Bending, in-lb	Flap Bending, in-lb	Flap Bending, in-lb
13/14	Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.570
MEAN	1480	1251.9	781.2	733.3	620	393.7
RMS	566.2	336.2	138.3	123.6	142.4	255.4
1/2 P-P	1217	739.8	366	349	369.4	667.7
RUN/POINT	Flap Bending, in-lb	Flap Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb
13/14	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.400
MEAN	216.5	-33.5	-374.7	-2128.3	-2362.8	-474.6
RMS	396.7	456.4	342.2	1320.8	1087.2	60.4
1/2 P-P	931.7	1152.9	928.2	2803.2	2831.1	133.5
RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
13/14	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	1273.4	-246.7	1509.1	-1060.9	1431.2	916.5
RMS	553.3	1296.6	564.6	1309.1	1074.9	934.5
1/2 P-P	1287.9	2606.4	1272.9	2816.3	2250	2580.2
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Pitch Link, lb
13/14	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 4, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1
MEAN	-916.9	-467.1	1482.5	-1916.2	-566.9	-70.1
RMS	1060.4	58.7	567.3	1347.7	48.5	12.6
1/2 P-P	3159	126.3	1233.6	2813.1	110.7	36.2

RUN/POINT	Flap Bending, in-lb	Blade 1, r/R=0.144	Flap Bending, in-lb	Blade 1, r/R=0.167	Flap Bending, in-lb	Blade 1, r/R=0.215	Flap Bending, in-lb	Blade 1, r/R=0.280	Flap Bending, in-lb	Blade 1, r/R=0.325	Flap Bending, in-lb	Blade 1, r/R=0.570
MEAN	2245.7	1730.9	977.5	822.9	691.1	461						
RMS	731.5	440.1	205.5	180.1	190.4	354.1						
1/2 P-P	1480	879.8	498.5	541.3	571	774.9						
RUN/POINT	Flap Bending, in-lb	Blade 1, r/R=0.725	Flap Bending, in-lb	Blade 1, r/R=0.800	Flap Bending, in-lb	Blade 1, r/R=0.900	Flap Bending, in-lb	Blade 1, r/R=0.144	Chord Bending, in-lb	Blade 1, r/R=0.570	Torsion, in-lb	Blade 1, r/R=0.400
MEAN	244.1	-25.7	-411.1	-905.4	-2228.7	-479.4						
RMS	487.6	520.9	415.6	1962.3	1311.8	65.8						
1/2 P-P	1288	1401.7	1320.3	3914.1	3315.8	171.6						
RUN/POINT	Flap Bending, in-lb	Blade 2, r/R=0.144	Chord Bending, in-lb	Blade 2, r/R=0.144	Flap Bending, in-lb	Blade 3, r/R=0.144	Chord Bending, in-lb	Blade 3, r/R=0.144	Chord Bending, in-lb	Blade 3, r/R=0.174	Chord Bending, in-lb	Blade 3, r/R=0.325
MEAN	2039	860.2	2308.1	-66.9	2305.4	1289.2						
RMS	744.9	1867.4	713.4	1855.3	1535.5	1196.8						
1/2 P-P	1563.1	3564.4	1544.7	3551	2880	2857.5						
RUN/POINT	Chord Bending, in-lb	Blade 3, r/R=0.450	Torsion, in-lb	Blade 3, r/R=0.400	Flap Bending, in-lb	Blade 4, r/R=0.144	Chord Bending, in-lb	Blade 4, r/R=0.144	Torsion, in-lb	Blade 4, r/R=0.400	Pitch Link, lb	
MEAN	-749.5	-471.9	2223.2	-765.3	-578.9	-57.7						
RMS	1268.2	63	714	1888.7	56	14.7						
1/2 P-P	3030.3	172.2	1488.1	3734.7	143.6	35						
RUN/POINT	Flap Bending, in-lb	Blade 1, r/R=0.144	Flap Bending, in-lb	Blade 1, r/R=0.167	Flap Bending, in-lb	Blade 1, r/R=0.215	Flap Bending, in-lb	Blade 1, r/R=0.280	Flap Bending, in-lb	Blade 1, r/R=0.325	Flap Bending, in-lb	Blade 1, r/R=0.570
MEAN	2985.2	2182.1	1147.5	896.4	750.9	593.1						
RMS	819.4	484.7	226.5	261.6	297.9	348.7						
1/2 P-P	1720.3	1043.1	673.7	731	787.1	832						

RUN/POINT	Flap Bending, in-lb	Flap Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb
13/16	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.400
MEAN	345.4	-15.2	-525.5	221	-2102.2	-465.3
RMS	653.1	720.8	531.8	2219.7	1104.4	82.7
1/2 P-P	1629.9	1797.3	1575.3	3751	2738.6	196
RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
13/16	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	2749.9	2226.1	3070.1	1061.4	3331.6	1793.5
RMS	826.6	2048.3	820.6	2065.5	1692.5	1178.4
1/2 P-P	1815	3808	1713.5	3772.9	3085	3190.4
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Pitch Link, lb
13/16	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1
MEAN	-494	-455.4	2923.2	266.9	-575.4	-39.1
RMS	1167.9	84.1	805.9	2138.6	66.1	17.2
1/2 P-P	3127.5	193.8	1672.7	3655.3	172.5	43.3
RUN/POINT	Flap Bending, in-lb	Flap Bending, in-lb	Flap Bending, in-lb	Flap Bending, in-lb	Flap Bending, in-lb	Flap Bending, in-lb
13/17	Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.570
MEAN	4143	2902.6	1449.7	1035.6	861.7	654.4
RMS	576.7	340.8	192.6	234.3	240.8	290
1/2 P-P	1388.7	788.3	535.9	684.1	634.8	822
RUN/POINT	Flap Bending, in-lb	Flap Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb
13/17	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.400
MEAN	274.8	-135.8	-650.4	1453.4	-1854.5	-465.7
RMS	494.6	599.8	503.5	1487.8	1925.8	70.6
1/2 P-P	1296.3	1552.5	1392.4	3584.6	3950.4	174.4

RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
13/17	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.174	Blade 3, r/R=0.325				
MEAN	3850.9	3260	4264.8	2414.6	4541	2369.3			
RMS	654.3	1624.3	632.5	1624.5		1460.2			
1/2 P-P	1458.5	3751.5	1482.1	3683.3		3333.6			
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb		Pitch Link, lb		
13/17	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400		Blade 1		
MEAN	-159.1	-456.3	4005.4	1245		-591.2			
RMS	1836.6	78.3	590.4	1513.5		60.3			
1/2 P-P	4119.6	181.8	1493.3	3841.9		163.3			
RUN/POINT	Flap Bending, in-lb								
13/18	Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325		Blade 1, r/R=0.570		
MEAN	4811.6	3304.2	1594.3	1076.8		879.7			
RMS	721.3	432.1	226.4	211		206.4			
1/2 P-P	1598.2	988.4	737.9	738.8		725.5			
RUN/POINT	Flap Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb			
13/18	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.400			
MEAN	286.7	-156.3	-705.6	2528.2		-1658.8			
RMS	416.6	517	473.3	2340.5		1949			
1/2 P-P	1106.1	1432.6	1535.6	5262		4322.7			
RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb				
13/18	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325			
MEAN	4611.4	4236.3	5014.3	3597.5		2905.8			
RMS	822.8	2564	757.5	2465.3		1670.6			
1/2 P-P	1884.1	5718.4	1673.4	6340.2		3977.3			

RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
MEAN	152.8	-465.3	4713.2	2243.5	-604.4	2
RMS	1807.8	107.3	799.6	2512.3	97.2	19.7
1/2 P-P	4140.7	338.3	1801.2	5983.8	291.6	70.7
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.144	Flap Bending, in-lb Blade 1, r/R=0.167	Flap Bending, in-lb Blade 1, r/R=0.215	Flap Bending, in-lb Blade 1, r/R=0.280	Flap Bending, in-lb Blade 1, r/R=0.325	Flap Bending, in-lb Blade 1, r/R=0.570
MEAN	-4254.2	-2313.1	-637.6	141.9	180.3	-15.7
RMS	153.1	86.2	66.8	106.8	111.4	76
1/2 P-P	335.8	169.9	193.5	302.4	311	213.5
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800	Flap Bending, in-lb Blade 1, r/R=0.900	Chord Bending, in-lb Blade 1, r/R=0.144	Chord Bending, in-lb Blade 1, r/R=0.570	Torsion, in-lb Blade 1, r/R=0.400
MEAN	-3.4	-63.8	17.1	-9515.6	-3224.1	-281.1
RMS	186.2	239.1	211.2	184.4	302.2	17.5
1/2 P-P	341.2	583	576.8	459.3	788.7	47.4
RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
MEAN	-4412.6	-7549.1	-4400.6	-7363.2	-4131.8	-1615.6
RMS	165.6	172.4	151.7	227.1	168.4	205
1/2 P-P	337.8	451.6	345.5	601.6	409.5	510.9
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
MEAN	-2159.4	-280.3	-4138.3	-8887.5	-330.1	-66.9
RMS	306	17.2	160.3	218	16.3	8.3
1/2 P-P	713.5	50.2	345.1	601.6	45.5	17.9



Appendix F—Forward Flight Dynamic Data

The forward flight dynamic structural loads for minimized flapping trim are presented in the following tables. For each of the measurements, the time-averaged mean, root-mean-square value, the one-half peak-to-peak value (absolute maximum minus the absolute minimum divided by 2), and the first eight harmonics expressed in

terms of *Cosine* and *Sine* components are presented. Data are organized and presented in the same run and point order as in Appendix C. Measurements with zero values indicate that the instrumentation for that particular channel was not functioning properly during that run, or was considered unreliable for that particular data point. Definition of the measurements in the following tables is presented below.

Measurement Descriptions

Measurement Type	Blade No.	Location, r/R	Units	Positive Sign Convention
Flap Bending	1	0.144	in.-lb	tip up
Flap Bending	1	0.167	in.-lb	tip up
Flap Bending	1	0.215	in.-lb	tip up
Flap Bending	1	0.280	in.-lb	tip up
Flap Bending	1	0.325	in.-lb	tip up
Flap Bending	1	0.570	in.-lb	tip up
Flap Bending	1	0.725	in.-lb	tip up
Flap Bending	1	0.800	in.-lb	tip up
Flap Bending	1	0.900	in.-lb	tip up
Chord Bending	1	0.144	in.-lb	leading edge tension
Chord Bending	1	0.570	in.-lb	leading edge tension
Torsional Moment	1	0.400	in.-lb	pitch up
Flap Bending	2	0.144	in.-lb	tip up
Chord Bending	2	0.144	in.-lb	leading edge tension
Flap Bending	3	0.144	in.-lb	tip up
Chord Bending	3	0.144	in.-lb	leading edge tension
Chord Bending	3	0.174	in.-lb	leading edge tension
Chord Bending	3	0.325	in.-lb	leading edge tension
Chord Bending	3	0.450	in.-lb	leading edge tension
Torsional Moment	3	0.400	in.-lb	pitch up
Flap Bending	4	0.144	in.-lb	tip up
Chord Bending	4	0.144	in.-lb	leading edge tension
Torsional Moment	4	0.400	in.-lb	pitch up
Pitch Link	1	—	lb	tension

		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
RUN/POINT		MEAN	-3468.4	-1808.2	-441.2	167.2	118.8	282.1	241.2	142.6	327.1	38.3	
		RMS	238.6	135.8	66.5	118.8	163.8	282.1	241.2	142.6	327.1	38.3	
		1/2 P-P	513.7	294.8	163.8	282.1	282.1	282.1	241.2	142.6	327.1	38.3	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	3	-193.6	-7.4	-123.2	-34.9	-57.6	-60.4	-33.2	-72.1	-29.2	-122.9	-41.9	
2nd	128.4	-23.4	75.3	-10.7	17.6	-3.5	-14.6	-1.5	-23	-1.6	-170.5	-13.1	
3rd	184.6	-68.6	103.9	-32.7	11	-4.8	-56.8	16.3	-81.7	26.2	-175	34.7	
4th	45.1	-3.2	25.6	-1.4	4.2	-0.7	-14.9	1	-25.4	2.5	-42.4	-0.2	
5th	-2	126.3	-1.1	50.7	8.6	-40.8	16	-124	13.7	-149.7	-18.1	2.6	
6th	-2.6	6.5	-2	2.3	-1.6	-3.1	-1.7	-6.8	-1.7	-8.2	6.5	3.3	
7th	6.7	0.8	1.1	-1.2	-5.6	-5.7	-11.9	-7.7	-12.5	-5.3	12.3	11.5	
8th	4.5	1.8	1.9	-0.5	-2.5	-4.3	-5.3	-6.5	-5.6	-4.7	2.6	12.9	
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800	Flap Bending, in-lb Blade 1, r/R=0.900	Flap Bending, in-lb Blade 1, r/R=0.144	Chord Bending, in-lb Blade 1, r/R=0.570	Chord Bending, in-lb Blade 1, r/R=0.400	Torsion, in-lb Blade 1, r/R=0.570						
RUN/POINT		MEAN	-61.3	-161.5	-117.8	-8641.8	-2834						
		RMS	374.8	437.1	340.8	353.8	583.2						
		1/2 P-P	824.1	967.4	823.3	859.5	1242.4						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-32.7	-70.6	35	-70.8	76.3	-29.4	409.2	100.6	93.4	42.8	-1.3	14.3	
2nd	-324.7	6.6	-341.5	2.9	-188.6	-16.4	-72	52.9	67.6	-14	-34.1	-16.5	
3rd	-261.9	73.4	-334.5	87.9	-289.2	51.5	-1.9	32.7	-58.3	-34.3	-17.1	-15.1	
4th	56	9.3	75.2	27.8	6.5	52.4	-55.6	28.2	632.5	-312.6	5.7	-2.7	
5th	-12.7	291.6	52	344.4	77.2	267.7	-26.6	-164.5	38.9	337	5.2	10.9	
6th	-3.1	20.4	15.4	10.3	64	-6.3	6.7	-9.9	-10.8	23.1	-1.9	0.8	
7th	7.7	-4.4	-26.2	-7.8	-32.3	-33.1	18	16.5	-15.8	-14	0	-2.1	
8th	7.3	-10.2	-9.4	-18.6	-38.4	-23.2	-0.2	13.6	7.4	-11.5	0.9	-2	

RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	-3577.7	-6313.6	-3573.8	-6721.8	-3474.3	-3474.3	-1039.3	-1039.3
RMS	258.4	389.4	263.5	383.2	315.4	315.4	427.3	427.3
1/2 P-P	544.3	874.3	539	902.1	658.4	658.4	977.9	977.9
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	220.5	63.4	61.7	493.2	-72.6	227.3	-470.6	61.1
2nd	-133.2	23.7	82.3	-48.1	149.7	-8.2	-83.1	55.6
3rd	-74.7	-184.5	26.2	0.9	-174.7	69.5	10.6	-57.2
4th	51.7	-10.9	-67	24.2	55.1	-11.7	-14.3	-21
5th	-132.5	-5.1	118.6	-13.2	3.2	-136.1	50.9	155.5
6th	-1.8	1.2	-10.8	-5.2	4.8	0.2	3.3	21.6
7th	2.2	-9.7	9.7	4.2	-9	-0.2	15.7	6.6
8th	4.4	-6.3	3.3	11.1	-1.2	-1.1	9.4	13.6
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Pitch Link, lb
	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1
MEAN	-1690.2	-294.3	-3397	-7959.7	-345.9	-345.9	-50.2	-50.2
RMS	584.4	35	242.7	349.6	35.1	35.1	14.7	14.7
1/2 P-P	1409.8	78	520.8	873.3	76.5	76.5	27.6	27.6
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-169.9	-6.3	2.8	-10.5	-188.2	-32	-20.4	-423.5
2nd	43.2	11.9	-36.4	-19.4	-144.1	21.8	115.9	-44
3rd	26	47.4	17.3	12.6	68.7	186.7	-23.7	34.7
4th	569.4	-364	0.6	0.5	48	-7.6	-40.3	45.1
5th	-79	-388	-4.7	-6.7	124	-20.1	-131.2	-5.7
6th	-11.4	-33.8	-0.5	-0.2	-0.4	-7.6	19.1	-1.2
7th	-5.3	-7.3	0.4	3.1	0.4	8.6	16	18.1
8th	-7.9	-2.4	1.3	-0.7	-1.1	8.3	1.4	14.2

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
		Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.370	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570
MEAN	-2281.7		-1075.9		-147		281.1		335.6		208.5
RMS	167.3		108.1		67.5		77		86.9		235.8
1/2 P-P	333.6		221.2		153.8		186.7		206		488.8
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-171.7	-27	-121	-21.2	-83	-18	-81.4	-22.9	-88.1	-25.1	-283.5
2nd	18.7	19.9	9.5	13.7	3.7	7.5	-9.9	2	-12.3	-0.8	-63.8
3rd	117.5	-73.8	67.4	-38.6	8.1	-6.3	-34.1	17.6	-50.4	27.3	-124.6
4th	33.2	4.2	19.1	2	2.8	-2.8	-12.1	-5.4	-19.6	-6	-29.7
5th	-3.9	11.1	-2.6	4.2	-0.7	-4.7	1.1	-11.6	1.5	-13.4	-0.7
6th	6.4	6.9	1.7	3.9	-3.9	-1.5	-8.7	-5	-10.4	-6.8	4.4
7th	3.3	0	0.7	1	-2.9	0.7	-6.2	1.4	-6.7	2.6	5
8th	21.2	-3.8	4.8	-3	-20	-3.2	-36.5	-2.5	-35.2	1.4	40.1
RUN/POINT	Flap Bending, in-lb	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
28/ 6	Blade 1, r/R=0.725		Blade 1, r/R=0.800		Blade 1, r/R=0.900		Blade 1, r/R=0.144		Blade 1, r/R=0.570		Blade 1, r/R=0.400
MEAN	237.3		58.8		-138.4		-7420.7		-2821		-335.8
RMS	364.2		386.6		272.6		318.3		401.2		24.8
1/2 P-P	616.9		713.2		615.3		799.6		911		54.7
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-427.7	-40.5	-277.9	-24.7	3.1	3.8	-306.5	234.3	112.2	68.8	-15.4
2nd	-261.1	-13.8	-440.5	5.2	-311.6	9.9	63.2	15.8	44.7	-18.7	-17.8
3rd	-50.8	65.9	-28.3	59.1	-132.2	53.6	20.5	24.9	-75.3	-31.7	-18.7
4th	35.1	28.8	118	29.5	122.7	19.9	-50.8	34.8	406.1	-298.1	2.7
5th	-1.7	27	-6.7	36.8	58.7	17.1	5.8	17.8	-3.7	-32.8	-3.4
6th	10.8	10.6	2.3	-3.3	-9.6	-11	1.8	-10.1	5.2	14.1	0.7
7th	1.7	-1.8	-7.3	0.4	-31	-2.2	24	10.7	-24.7	-9.4	0.9
8th	-11.7	-5.5	-57.1	0.1	-62.3	5.2	68.7	-61.2	-59.3	59.1	-2.1

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
28/6	-2354.3	-5189.4	-2345.7	-5615.7	-2506.8	-274.5	-768.7
MEAN	152	253.7	157.4	330.9	274.5	679.2	255.5
RMS	328.4	653.3	348.5	781.4			608.9
1/2 P-P							
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	71.2	-111.6	-141.5	-251.7	101.4	97.6	372.4
2nd	-28.5	-25.3	-41.4	8.1	26.7	37.9	70.9
3rd	-82.8	-121	16.6	-20.7	-115.7	84.6	-16
4th	35	-0.1	-49	13.5	41.8	0.8	-13.9
5th	-7.2	-6.6	-15	14.9	-1.6	-3.3	0.2
6th	-8.7	-1.8	2.7	9.1	9.4	-1.3	-5.7
7th	-2.1	-3.7	20.8	11.9	-1.9	1.5	19.8
8th	24.3	-5.6	58	-65.2	26.2	-6.7	66.8
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1	
28/6	-1646.3	-331.2	-2206.2	-6883.2	-396.8	-57.7	
MEAN	325	24.9	158.1	324.3	22.6	15.4	
RMS	702.9	55.7	332.2	827.5	49.4	29.7	
1/2 P-P							
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-21.2	-77.1	18.6	2.6	-46.2	124.6	150.7
2nd	61.4	-16.5	-18.6	-9.9	-40	-22.4	-21.7
3rd	56.8	47.8	17.3	7.8	85.9	128	-19.9
4th	317.8	-264.9	-2.1	4.7	34.6	4.4	-43.6
5th	-8.1	46.1	1.7	-0.3	15.9	6	5.6
6th	6.4	-2.8	-0.7	-1.8	-4.2	-3.8	5.6
7th	-9.8	-3.1	-0.1	1.2	3.9	5.4	17
8th	-29.6	24.3	-2.6	0.3	22	-14.2	68.5

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
		Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.370	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570
MEAN	-758.6	-124.1	235.3	436.7	456.4	301.9					
RMS	262.3	155.3	76.9	99.6	112.3	248.7					
1/2 P-P	693.4	415.9	208.1	253.2	272.1	577					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-49.9	112.1	-51	64	-49.3	14.7	-65.6	-14	-74.3	-21	-257.5
2nd	-149.1	-142.8	-86.9	-84.4	-34.7	-20.7	-3.5	19.4	5.8	33.2	34.1
3rd	162.7	50.6	90.1	29.9	10.9	-1.4	-46.7	-21.4	-69.9	-26.8	-133.2
4th	19	16.4	9.9	8.6	-0.1	-1.3	-10.5	-9.4	-15.9	-10.5	-3.3
5th	-24.3	-6.8	-9.3	-2.8	7.5	3.5	24	10.2	29.6	12.7	10.1
6th	-2.5	3.3	-1.9	2.6	-0.9	1.6	0.2	1.2	0.2	1	3.4
7th	-1.7	7.4	-1	1.5	1.1	-7.7	2.8	-13.2	2.4	-12.1	-5.1
8th	-15.7	-0.3	-3.4	1.9	14.8	6.1	30.1	8.4	29.3	7.2	-29.8
RUN/POINT	Flap Bending, in-lb	Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
28/7	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.400	
MEAN	245.7	78.9	-190.2	-5222.7	-2585	-408.2					
RMS	420.2	464	284.9	982.1	624.9	26.6					
1/2 P-P	927.9	915.1	688.8	1660.7	1859.2	80.5					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-537.9	-83.4	-601.2	-79.8	-269.7	-23.8	-1267.7	28.7	16.7	50.7	-16.5
2nd	23.4	119.6	-35.4	95.9	-160.5	30.3	223.2	138.3	-8.3	-19.5	-7.2
3rd	-85.7	-17.7	-7.4	2.7	73	21.9	-9	15.2	9.6	-53.2	-12.7
4th	26	-11.3	33.5	-18.5	36.1	-8.4	-54.2	-16.3	218.7	39.1	4.5
5th	-53.7	-45.7	-75.7	-59.7	-57	-46.8	57	11.5	-152.2	-45.2	-1.5
6th	-7	-13.7	-15.4	-16.4	-18.7	-8.7	12.4	-9.9	-35.4	1.8	-1
7th	-6.9	-2.9	-3.8	-20.8	0	-27.6	11.4	7.4	-21.8	-2.8	0.3
8th	6	2.7	40	10.8	45.2	17.9	-117.6	47.2	108	-46.2	1.6

RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	-815.4	-3127.7	-782.5	-3457.5	-638.4	124.7		
RMS	266.4	942.7	278.9	1061.8	873.3	578.2		
1/2 P-P	702.7	1726.1	691.1	1964.5	1596.8	1659		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-60.3	29.1	27.6	-1229.7	-32.2	-57	1400.5	15.5
2nd	139.6	137.7	-172.9	-116.9	-158.6	-145	228.3	155
3rd	41	-194	24	4.9	-185.4	-57	23	-2.6
4th	21.2	24.7	-11.5	-11.4	16.1	19.8	-7.6	8
5th	12.7	-41.3	-5.4	55.9	52.5	5.2	-78.3	0.9
6th	-0.5	3.2	-2.8	5.9	2.9	-5.3	-5	-35.5
7th	4.2	5.2	7.1	13.3	9.9	-9.7	11.5	18.2
8th	-17.7	4.4	-96.5	61	-23.3	-14.5	-99.1	16.1
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Pitch Link, lb
	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 4, r/R=0.400	Blade 1
MEAN	-1205.2	-400.2	-400.2	-707.5	-4829.3	-476.6	-476.6	-64.8
RMS	603.3	27.6	27.6	278.3	1035.1	22.9	22.9	15.9
1/2 P-P	1646.3	74.1	74.1	688.3	1749.1	73.1	73.1	29.7
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	226.8	-31.3	15.4	4.8	86.1	-7.5	-54.7	1354.6
2nd	17.6	16.3	-5.5	10	154.2	146.7	-206.5	-156.4
3rd	19.9	94.3	14.8	19.1	-52.7	184.8	-25.8	14.5
4th	112.1	45.8	6.6	-3.3	21.3	17.7	-40.5	-3.8
5th	199.6	6	2.2	-1.2	0.6	45.5	12	-65.5
6th	2.8	-20.6	0.5	-1	2.1	5.6	1.9	-9.7
7th	-8.8	-14	0.5	1.5	-6.2	-1.4	11.1	8.2
8th	30.7	-16.8	2.3	2.2	-30.8	-4.6	-113	48.2

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
28/ 8													
MEAN	-294.3	167.2	347.3	482.9	491.4	374.9							
RMS	348.2	199	98.1	153.7	175.4	275.2							
1/2 P-P	757.2	463.7	270.7	414.1	500.5	648.9							
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	109.6	-184.8	42	-110.4	-21.8	-42.4	-81.8	-15	-96.3	-15.4	-231.2	-24.6	
2nd	-249.9	-52.7	-149.4	-27.9	-59	12.7	-12	39.9	4.2	46.7	110.9	139.2	
3rd	135.5	-42	75.9	-19.1	5	1.1	-52	16.7	-72	24.6	-133.6	51.4	
4th	-15	-34.9	-6.6	-20.9	3.3	-4.2	7.5	11.3	7.3	19.4	0.2	29.8	
5th	103.1	1.1	38.9	1.2	-41.1	-7.6	-114.3	-13.6	-136.9	-10.4	-1.8	1.8	
6th	13.3	11	5.7	5.2	-2.7	-3.8	-11	-10.9	-13.5	-12.1	4.5	0.1	
7th	12.9	-0.3	3.4	0	-8.8	-0.2	-19.9	-0.3	-20.6	1.9	22.4	3	
8th	-11.1	14.3	1.2	1.9	20.2	-13	34.8	-23.8	29.8	-24.6	-44.6	19.9	
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Chord Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400			
28/ 8													
MEAN	312.5	123.8	-204.8	-4417.5	-2538.6	-414							
RMS	466	538.6	347.3	1557.6	884.2	37.4							
1/2 P-P	1099.1	1157.9	868.7	2866.3	2269.3	93.3							
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-492.4	-42.5	-586.4	-44	-302.8	-3.7	-1995.1	511.8	-115.2	109.1	-15	16.1	
2nd	150.8	167.4	119.8	150.5	-38.9	61.8	372.8	18.4	-81.8	-67.3	6	19.9	
3rd	-74.4	80	18	98.7	88.5	99.9	50	-15.6	-117	-73.5	-26.9	-4.9	
4th	-19.4	-15.6	-31.7	-35.1	-19.7	-19.1	-9.5	94.1	151.6	-819.7	10	4.6	
5th	262.1	49.1	324.8	62.3	225.4	60.8	-129.6	75	369	-115.2	6	-4.5	
6th	13.5	40.6	14.9	41.5	0.6	24.4	-34.2	4.6	55.5	-3.6	2.7	2.6	
7th	0.2	13.6	-20.8	11.7	-17.9	10.9	2.7	-7.1	7.8	3.3	-0.6	0.2	
8th	14.7	0.5	55	-33.7	65.8	-36.2	-22.1	-1.3	27.3	3.6	2.1	0.6	

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
MEAN	-339.8	-2312.6	-274.2	-2826.4	-84.6	290.7
RMS	388.8	1544.5	379.4	1574.1	1290.9	809.6
1/2 P-P	873.6	2873.8	931.1	2807.5	2337.5	1913.1
HARMONIC	COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE
1st	222.7	181 -448.1	-2005 -187.2	208.7 2060.5	-438.2 1701.2	-316.2 845.3
2nd	250.9	49.9 -324.6	-6.1 -283.3	-36.8 355.6	5.2 273.1	2.3 103.8
3rd	-59.8	-164.6 -1.2	-45.7 -132.1	47.2 -69.2	16 -57.1	-5.8 -6.2
4th	-18.8	-36.2 -17.9	113.6 -29.8	-56.3 29.5	-2.1 24.8	-83.5 14.2
5th	19.2	102.8 -83.3	-82.2 -89.6	28.7 94.6	-109.7 42.2	-53 -53
6th	1.2	-9.5 10.5	0.7 -1	-0.3 13.9	21 6.7	12.8 0.3
7th	5.9	-7.7 9.5	-12.8 -9.6	-1.8 16.1	-17.9 9.5	-11.6 -15.1
8th	-7.2	-2.2 -14.4	7 -4.5	2.4 1.5	9.9 0.1	5 -6.6
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
MEAN	-41137.1	-401.5	-228.5	-4017.2	-487.1	-62.9
RMS	786.6	35.7	362.1	1641.6	32.6	14.6
1/2 P-P	1955.1	89.2	823.4	3017.7	81.6	29.8
HARMONIC	COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE
1st	419.9	-136.3 14.2	-10.9 -179.2	-182.6 400.7	2159.3 14	13 -8.5
2nd	-10.2	-48.7 8.7	20.3 264.9	30.3 -355.1	-8.7 -0.2	-16.7 -3.3
3rd	36.3	37.9 27.6	2.1 52.7	140.9 12.7	60.5 1.9	-25 -6.1
4th	-18.9	-609.4 7.7	5.6 -34.3	-35.2 42.7	23.8 10.8	0.3 1.8
5th	-304.3	265.8 2.3	2.8 -38.5	-76.7 84.4	98.5 -4.3	3 -1.5
6th	-2.7	-27.4 0.4	2.5 -8.7	-1.5 2.3	-5.1 -1.2	-2.3 0.3
7th	-4.7	24.7 1.5	0.4 -2.4	3.8 5.3	-11.1 0.9	-0.9 -0.9
8th	-2.5	-10.9 1.7	0.7 -10.3	-18.3 -2.6	-2.1 1.2	2.3 0.7

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
		Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.570	Blade 1, r/R=0.570
MEAN	348.5	569	515.6	560.1	559.8	451.5					
RMS	566.7	329.8	166.3	230	258.3	259.2					
1/2 P-P	1197.1	686.7	504.6	676.7	734.8	638.9					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	84.3	-532.3	31.9	-315.7	-11.1	-115.8	-54	-20.7	-60	-4.8	-29.8
2nd	-138.2	23.1	-86.3	18.7	-43.7	30.1	-28.7	48.2	-21.4	58.8	148.3
3rd	-8.6	-0.9	-4.3	-2.5	-3.2	-2.4	-9.6	-1.4	-14.3	2.3	-13.5
4th	-75.2	-40.4	-39	-27	2.6	-8.6	39.1	8.4	49.7	15.6	14.8
5th	154.2	-107.9	56.6	-37.3	-76.2	39.1	-195.8	111.6	-226.1	139.8	15.5
6th	13.5	19.3	4.6	8.3	-5.8	-6.8	-17.7	-17.8	-20.8	-21.5	-10
7th	4.1	2.1	5.6	0.1	8.2	-3.9	5.1	-10	0.5	27.1	7.7
8th	-4.4	-5.3	-2.2	-5.7	0.6	-2.6	4.5	-1.6	5.7	-10.3	25.5
										-11.3	8.6
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb
28/9	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.215	Blade 1, r/R=0.325	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.400	
MEAN	362.8	142.2	-259.8	-3679	-2491.1	-424.3					
RMS	581.1	694.4	478.5	2253	1323.5	39.5					
1/2 P-P	1373.8	1753	1363.5	4269.9	3709.7	109.6					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-484.8	-89.2	-614.4	-100.1	-332.1	-55.6	-2601.9	1399.8	-210.3	302.6	-10.3
2nd	146.1	130.5	102.7	91.3	-50.3	22.2	318.7	-58.7	-73.1	-65.2	6.9
3rd	84.2	132.2	169.8	155.2	173	125.3	59.1	-68.6	-46.4	83.8	-6.7
4th	-56.8	56.8	-82.8	39.1	-54.3	29.2	117.7	60.2	-860.2	-1047.5	18.1
5th	426.2	-195.7	507.2	-212.3	352.7	-121.1	-105.6	201.3	366.5	-463	-2.2
6th	4.3	39.1	-30	40.3	-45	18.4	-16.8	8.4	5.9	-20.6	8.1
7th	2.1	-8.5	-17.8	-42.2	-21.7	-40.1	-6.7	8.8	-18.6	-26.9	-0.1
8th	5.2	-9.4	11.7	-24.5	12.5	-21.3	-10.6	-173.2	4.6	-1.9	0.6

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
28/9						
MEAN	307.9	-1438.6	383.7	-2031.2	609.3	573.5
RMS	620.3	2315.9	618.4	2327.3	1916.7	1353.8
1/2 P-P	1377.4	4278.8	1364.1	4245.3	3616.1	3527
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	616.9	186.6	-1386.3	-203.7	606.5	2743.5
2nd	134.3	-18.5	-244.4	94.7	-141.9	16.5
3rd	-10.6	-19.4	-57.4	-35.3	9.2	3
4th	-95.1	-34.5	171.1	125.2	-74.5	-43.5
5th	139.6	141.7	-172.8	-80.6	-130.1	163.8
6th	-11.9	-18.6	7	18.6	14.1	14
7th	7.9	-0.4	39.9	-3	-8.2	-11.6
8th	7.8	-14.1	-28.2	-160.8	6.7	-17
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
28/9						
MEAN	-1000.7	-410.4	395.4	-3266.3	-499.7	-55.8
RMS	1393.2	38.2	608.9	2373.3	36.3	13.4
1/2 P-P	3893	120.2	1253.6	4458.2	111.1	34.7
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	626.6	-400.3	8.8	-11.5	-580.9	-158.2
2nd	6	-63.6	10	11.3	129.2	2.1
3rd	92.4	-9.5	2.4	-8.2	-5.1	16.6
4th	-960.1	-834.5	22.9	1.4	-77.4	-36.7
5th	-343.2	693.1	3.6	6.1	-193.2	-121.8
6th	-34.2	12.5	0.5	3	-23.1	-21.4
7th	-25.4	30.8	-0.3	0.5	-15.5	3.7
8th	-9.9	74.6	-0.2	1.4	3.5	-21

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
		Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325
MEAN	2202.5	1726.6	993.8	782	742.2	577.5					
RMS	486.4	285	140.9	210.5	241.3	271.8					
1/2 P-P	1408	813.9	456.4	638.2	651	752					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-159.3	192.3	-112.1	123.1	-45.4	50.5	-27.5	15.9	-21.3	4.2	-187.2
2nd	-163.4	38.9	-96.5	28	-28.5	31.2	12.9	35.8	27.8	33.6	136.1
3rd	-36.6	-16.8	-23.5	-8.6	-8.6	0.6	-2.4	4.1	-3.5	3.5	20
4th	-61.6	40.4	-41.5	21.7	-18.2	-0.1	4.4	-21.4	15.2	-28	43.8
5th	-95.6	-97.6	-42.3	-40.6	12.1	36.2	60.7	106.3	81.3	123.2	39
6th	-9.7	-26.3	-6.2	-8.8	-4.9	13	-4.1	30.6	-1.6	31.5	5.4
7th	-9.1	-2	-4.9	-2.7	-0.2	-3.6	1	-3	1.8	-0.9	1.6
8th	-10.3	0.4	-1.5	0.6	6.5	2.5	11.5	3.5	10.2	3	-8.1
RUN/POINT	Flap Bending, in-lb	Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
28/10	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.144	Blade 1, r/R=0.144	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.400
MEAN	330.7	25.1	-479.9	-1017.6	-2136.7	-451.9					
RMS	605.2	724.9	484.1	2069	1526.7	54.7					
1/2 P-P	1653	1905.2	1250	4369.8	4026.8	138					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-524.1	-91.7	-655.4	-61.6	-324	-0.1	-2153.8	565.5	-114.6	183.6	-3.2
2nd	188.1	58.7	183.3	55.3	15	31.9	307.8	-112.1	-73.6	-66.4	12.9
3rd	47.8	61.3	78.7	77.8	93.9	61.1	-9.3	10.2	29.4	9.4	21.8
4th	-6.2	40.9	-19	104.7	-4	90.6	138.5	-89.2	-1228.3	863	-5.8
5th	-156.9	-241.7	-235.4	-267.5	-195.8	-181.2	162.5	63.8	-365.1	-178.9	-29.2
6th	2.8	-53	-9.8	-41.3	-23.9	-28.5	31.2	22.6	-35.6	-9.2	-3.1
7th	3.8	-24.1	0.7	-26.2	1.1	-16.8	16.2	-29.2	-11.2	42.6	-1.3
8th	3.7	-16.9	1.5	-11.5	-0.9	-6	112.7	-34.1	-108.6	42.8	-2

RUN/POINT		Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
		Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.174	Blade 3, r/R=0.325	Blade 3, r/R=0.325	
MEAN	2106.6	1211.9	2340.8	66.2	2479.8	1422.8							
RMS	467.2	2084.2	478.3	2027.4	1702.9	1346.3							
1/2 P-P	1218.2	4181.2	1324.6	3978.3	3379	3276.7							
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-127.3	-59.4	-572.9	-2408.3	92.3	-147	2350.3	-573.7	1989	-459.9	1052.2	-294.9	
2nd	183	-64.6	-307.5	126.6	-179.2	80.1	304.5	-224.3	247.9	-183.9	87.8	-142.1	
3rd	6	39.6	-61.8	-2.1	63.1	11.2	-11.7	12.9	-4.1	-3.5	10.4	-72.3	
4th	-42.3	64.7	87.7	-118.2	-42.9	52	-63	-60.4	-165.1	59.7	-653.9	573.9	
5th	90.8	-61.9	-47.7	113.9	49.9	129.4	-145.6	-67.1	-76.6	-20.6	162.3	208.9	
6th	11.7	15	-25.2	12.6	15.4	-6.2	-11.3	-25.3	-8.5	-10.3	-10.5	45.9	
7th	-3.9	0.6	-25.6	-32.4	3	14.1	-15	-14.6	-13	-11.4	-7.4	-0.8	
8th	7.3	7.1	69.3	-36	18.3	16.7	65.9	-30.5	62.6	-23	34.4	5.5	
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb			
		Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 4, r/R=0.400	Blade 1	Blade 1		
MEAN	-593.5	-436.1	2238.7	-971.7	-546.1	-25.7							
RMS	1497.1	48.2	453.6	2188	44.3	23.3							
1/2 P-P	4063.8	122.5	1266.4	4259.3	107	53.5							
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	551.6	-245.5	2.2	6.5	162.2	23.3	446.1	2568.5	-2.6	3.4	-16.1	24.6	
2nd	-14	-112.9	18.5	15.3	161.5	-48.7	-271.5	196.4	-8.6	-15.4	0.7	2.5	
3rd	22.3	-105.6	-21.9	6.4	1.4	-27.2	58.9	-4	9.7	15.3	4.1	3	
4th	-827.2	875.4	-6.5	-25.2	-58.3	48	45.4	-116	-7.4	-26.3	-1.7	-4.9	
5th	298.7	296.8	6.3	-0.1	-120.7	86.6	95.7	-121.6	1.8	12.4	-1.9	3.1	
6th	-7.7	71.2	0.7	-0.6	-7.9	23.4	4.1	7.2	-2.1	2.6	0.2	0	
7th	3.9	-2.7	0	0.6	-2.2	0	11.8	-13.9	1.4	-0.6	0.7	0.6	
8th	-28.7	23.1	-0.2	-2.4	33.7	4.4	98.7	-31.5	-1	-2	-0.3	0.6	

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
		Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.370	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570
MEAN	3337.4	2428.1	1272.7	887.6	816.4	679.4					
RMS	947.2	559.3	256.5	224.5	223.5	325.2					
1/2 P-P	1938.3	1090.6	584.5	709.8	708.5	920.7					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	661.3	-786.1	382.6	-470.9	142.1	-211.6	3	-95.2	-26.1	-74.4	-186.8
2nd	-255	251	-152.2	149	-49.5	56.6	10	11.4	29	3	133.8
3rd	81.1	-47.4	48.1	-22.7	13.6	1	-14	21.3	-27.7	30	-72.6
4th	-54.2	-28.4	-36.8	-19.5	-24.6	-9.5	-8.1	3.1	3.6	10	74.7
5th	70.1	-54.9	26.7	-20.8	-33.5	17.2	-85.7	53.9	-98.4	70	10.6
6th	-7.6	5.6	-3.6	4.3	2.8	5.4	9.6	6	11.7	4	-4.2
7th	1.2	7.7	4.6	3.5	11.8	-2.9	15	-7.8	15	-6.9	-20.8
8th	-6.3	-20.5	-8.8	-10.3	-13.7	9.7	-11.3	25.7	-3.7	30.2	16.7
RUN/POINT	Flap Bending, in-lb	Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
28/11	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.400		
MEAN	392.1	10.2	-570.8	444.7	-1942.1	-456.4					
RMS	504.5	600.5	478.9	4258.8	2004.2	106.9					
1/2 P-P	1350	1750.3	1665.4	8050.7	5579.8	348.1					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-385.9	-193.3	-456.3	-226.8	-204.5	-141.4	-5012.1	2751.4	-595.6	655.6	35.3
2nd	160.2	5.7	124.1	45.1	-31.5	32.3	537.9	-171.3	145.2	-74.3	17.5
3rd	-77.1	119.3	-59.4	164.5	-15.7	142.6	13.5	3.2	2.1	-80.8	28
4th	48.2	4.5	20.4	-12.7	24.5	-3.8	238.1	100.8	-1787.2	-1239.4	-10
5th	192.6	-130.6	229.8	-179.3	160.2	-137	9.2	106	11.8	-320.3	14.8
6th	0	2.7	16.3	18.2	35	15.6	15.6	-14.9	-18.1	20	1
7th	-4.1	11.9	3.7	-10.5	4.8	-9	14.2	23	-31.2	-28.4	0.3
8th	-18.6	8.7	-10.7	40.5	-8	30	-167.2	-183.3	175.9	166.6	-4.7

RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	3370	2927.9	3535.8	2032.8	4211.4	2262.4		
RMS	1124.4	4731.3	1064.2	4618.1	3833.5	2465.6		
1/2 P-P	2121.5	8381.8	1978.6	8263	7019.5	5605.3		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	1102.1	808.8	-3291.9	-5504.9	-698	1082.8	5223.4	-3507.4
2nd	271.5	-181.3	-406.6	166.4	-243.2	136.1	329.4	-88.5
3rd	-96.6	-141.7	41.7	95.4	-95.4	85	4.6	1.7
4th	-74.9	-46.6	287.9	140.3	-72.9	-56.9	-11.8	-49.6
5th	-1.4	100.9	-29	-15.7	-64.7	51	-41.1	-70.4
6th	7	12.6	-8.9	21.9	-24.4	4.8	-2.8	7.5
7th	0.7	5.6	59.3	22.8	11.4	-5.5	26.4	-3.6
8th	-32.9	-82.4	-162.4	-159.1	-16.5	-50.9	-197.6	-177.7
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Pitch Link, lb
	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1	Blade 1
MEAN	-135.3	-421.8	3351.6	533.6	533.6	-553.4	-13.3	
RMS	2105.7	80.4	1056.3	4663.5	4663.5	77.6	25.3	
1/2 P-P	5602.4	228.7	1984.3	8493.2	8493.2	249.8	86.2	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	1349.5	-1246.6	-25.6	14.9	-1047.1	-705	3139.7	5497.5
2nd	107.3	-79	19.6	5.9	317.1	-105.4	-538.5	-14.9
3rd	217.1	41	-31.9	19	84.5	60.6	-66.1	-88.1
4th	-1551.8	-833.7	36.3	-21.5	-71.3	-55.4	-8	-103.6
5th	-63.7	338.3	-3.6	4.7	-85.9	-34.8	95.7	-41.6
6th	-51	-0.2	1.3	2.9	16.6	-4.8	-14.9	6.1
7th	-28.6	39	1.7	0.7	-10	-18.1	-23.3	7.6
8th	69.5	82.2	-2.2	5.9	-25.5	-64.8	-187.2	-185.1

RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	-301.2	-2026.7	-206.8	-2720.9	-71	59.8
RMS	380	1025.5	371.4	1073.2	909.9	944.1
1/2 P-P	965.4	2301	972	2310.1	2108.4	2455.1
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-152.1	-150.9	-359.7	-1168.4	127.5	-160.7
2nd	309.3	67.3	-305.3	-18.7	-314.8	-93.7
3rd	-158.2	-195	10.9	-5.8	-178.1	133.4
4th	-23.3	-10.6	42.3	12.5	-12.4	-11.6
5th	28	6.8	-46.7	59.8	6.6	46
6th	-11.7	-1.8	-20.7	-5.7	16.3	4.4
7th	-0.5	-8.9	16.4	22.1	-8.6	-5.6
8th	16	7	145.5	-69.1	26	14.7
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Pitch Link, lb
	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1
MEAN	-1311.1	-419.2	0	-3941.8	-509.1	-91.5
RMS	1181.1	44.1	0	1087.8	36.6	18.2
1/2 P-P	2767.5	117.4	0	2315.4	98.1	35.8
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	243.3	-184.4	7.4	-1	0	305.2
2nd	-9	6.4	13.6	25.5	0	-296.2
3rd	186.1	13.6	35.8	-2.3	0	-16.8
4th	-606.7	-181	-1.8	-15.1	0	42.4
5th	56.1	229.2	3.3	-2.8	0	53.9
6th	-57.2	10.3	2.3	-1.1	0	-3.1
7th	8.7	9.8	-0.7	-2.7	0	-1.8
8th	-83.1	31	-0.7	-2.2	0	0
					166.6	-46.7

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb							
		Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.370	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.400	
MEAN	-3501.3		-1815.2	-434	0		227.6		-5.9		
RMS	201.8	124	72.4	0		83.5		158.3			
1/2 P-P	405	244	142.9	0		206.9		347.7			
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-219.8	-106	-140.4	-68.2	-83.6	-37	0	-69.9	-25.7	-158.3	
2nd	58.4	-7.4	33.3	-1.8	5.6	1.8	0	-15.1	2.2	-68.1	
3rd	100.6	-63.4	56.9	-32.3	6.3	-3.8	0	-44.4	24.9	-111	
4th	26.5	-3.4	15	-1.8	2.3	-1.5	0	-15.1	-0.1	-24.1	
5th	-6.7	42	-3	17.2	4.7	-12.9	0	9.1	-46.9	-2	
6th	3.5	5.4	1.5	2.9	-1.5	-0.6	0	0	-3.6	1.6	
7th	4.5	-0.4	2.4	0.4	-0.4	1.6	0	0	-5.6	0.8	
8th	2.2	23.9	0.5	3.6	1.7	-24.7	0	0	-43.9	-14.9	
RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
41/37	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.370	Blade 1, r/R=0.570	Blade 1, r/R=0.400	
MEAN	25.8		-85.9	-61.6		-9012.2		-2808.2		-317.7	
RMS	222.9	269.5	219.2	575.4		575.4		320.9		22	
1/2 P-P	462.1	541.3	483.6	1040		1040		763.9		51.1	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-155.4	-55.3	-68.9	-55.7	40.4	-21.7	653.3	455.1	180	137	
2nd	-215	2.9	-296.6	9.4	-192.4	-6	-2.2	30	42	-3.7	
3rd	-92.4	60.4	-123.4	66.3	-166.2	54.7	4.5	18.9	-40.9	-21.4	
4th	26.2	8.7	86.1	9.7	63	24.4	-26.8	27.3	273.1	-200.3	
5th	-16.7	99.4	0.5	120.3	58.7	75.1	5.6	-41.2	-19.7	87.7	
6th	9.7	8.5	1.4	5.3	11	-8.1	-8.9	-0.4	12.4	-2.2	
7th	2.5	1.6	-1.3	-3.6	-18.6	-2.4	21.1	-11	-19.2	13.4	
8th	1.2	-18.1	-1.2	-62.9	-5.3	-67.4	18.6	29.1	-20.2	-24.7	

RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	-3593	-6655.9	-3560.7	-7135.7	-3856.6	-1624.8		
RMS	195.8	588.8	194.6	540.2	446.1	328.6		
1/2 P-P	417.4	1062.7	422.1	957.4	784.8	690.4		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	135.7	-192.5	-324.9	747.9	164.7	-658.2	-351.8	-538.4
2nd	-50.9	1.9	7.3	-21	54.3	12.3	7.8	11.2
3rd	-63.8	-95.6	14	-3.5	-96.6	70.1	-3	-14.5
4th	27.2	-4.3	-40.8	27.6	25.9	-4.4	-13.3	1.6
5th	-53.3	-2.4	46.1	3.9	3.5	-53.2	-8	50.7
6th	-1.1	-4.6	2.5	9.8	0	1	14	-4.6
7th	-0.4	-3.3	24.4	-13.1	-5.3	0.2	25.6	-11.4
8th	8.6	24.7	18.9	29.5	4.2	16.7	19.3	23.1
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Pitch Link, lb
	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1
MEAN	-2009.8	-305.1	0	-8451	-371.8	-67.9		
RMS	326.1	22.6	0	525.9	21.1	9.1		
1/2 P-P	752.7	54.1	0	935.8	48.2	18.1		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-240.9	-157.9	14.8	8.3	0	379.4	-618.9	-3.5
2nd	36.3	-3.4	-19.3	-11.6	0	24.1	0.1	21.8
3rd	34.5	24.9	10.9	0	0	-17	1.4	4.7
4th	256	-166.7	4	2.9	0	-13.8	17.6	4.2
5th	7.4	-134	0.6	-3	0	-52	-17.6	1.7
6th	-15.1	1.7	-1.3	-1.9	0	0	-2.8	0.7
7th	-13.3	6.6	-1.4	1.1	0	0	-12	1.6
8th	-9	-9.9	0.4	-1.2	0	0	18.2	26.5

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
		Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.570	Blade 1, r/R=0.570	
MEAN	-2180.9	-1000.1	-107.1	0	0	0	335	335	137.4	137.4	
RMS	161.2	104.8	65.3	0	0	0	80.1	80.1	194.5	194.5	
1/2 P-P	310.4	198.8	125.4	0	0	0	209.6	209.6	410.3	410.3	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-190	-47.7	-129.9	-31.8	-82.2	-25	0	0	-77.5	-27.7	-241.1
2nd	9.2	-0.9	4.8	1.4	-4	3.6	0	0	-9.4	4.4	-42.2
3rd	93.8	-38.3	53.8	-19.4	7.7	-3.4	0	0	-39.2	14.1	-96.3
4th	16.8	5.3	10.1	2.2	2.9	-3	0	0	-9.6	-7.5	-13.9
5th	13.3	-30	5.2	-11.5	-6.3	8.3	0	0	-21.8	35.9	0.9
6th	4.8	4	1.1	1.9	-3.3	-1.1	0	0	-8.9	-3.6	3.3
7th	-4	4	-1.7	3.2	1.7	2.5	0	0	2.8	-0.9	-4
8th	6.4	7.4	2.6	1	-1.9	-9.6	0	0	-8.8	-16.8	2.5
RUN/POINT	Flap Bending, in-lb	Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
		Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.400	Blade 1, r/R=0.400	
MEAN	231	95.2	-102.2	-7814.5	-7814.5	-2763.9	-343.4	-343.4	-366.3	-366.3	
RMS	342.9	360.6	229.4	495.5	495.5	343.4	926.9	926.9	18.5	18.5	
1/2 P-P	578.9	626.4	489.1	963.4	963.4	926.9	40.8	40.8	40.8	40.8	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-447.9	-42.6	-411.3	-22.1	-57.6	7.3	-145.5	652.4	154.3	178.4	-12.5
2nd	-136.8	-9.5	-265.7	0.9	-271.4	10	67.7	28.6	33.4	-8.6	-16.5
3rd	-49.5	39	2.4	31.1	-61	25.1	14	20.2	-49.5	-34.4	-8.4
4th	19	14.6	50.4	21.5	88.9	12.3	-39	25.2	281.1	-158.9	0.4
5th	43.3	-64.4	47.1	-83.3	58.8	-65.3	-5.3	53.4	29.9	-114.5	-0.3
6th	9	6.3	2.8	2.7	-9.9	-2.8	6.2	-7.9	3.1	9.6	-0.3
7th	-2.5	4.4	4.4	1.2	-2.2	1.7	-2.9	17.2	6.3	-15	0
8th	-3	-7.5	-12.4	-23.7	-12.7	-21.9	-54.9	16.3	-11.5	0.2	-1.8

RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	-2269.7	-5502	-2226.8	-6007	-2856.4	-2856.4	-1207.4	-1207.4
RMS	146.9	395.1	149.9	450.5	377	377	274.3	274.3
1/2 P-P	286.4	793.4	305.1	877.6	733	733	578.1	578.1
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	77.6	-147	-517.1	-89.1	131	99	231	-557.8
2nd	-7.4	-2.2	-47.5	-10	1.9	19	79.3	-1.4
3rd	-45.3	-97.7	15.9	-7.3	-101.9	47.1	-4.8	-11.3
4th	19.8	5.9	-31.3	23	21.7	7.9	-4.4	-7.3
5th	26.3	10.3	-46.2	-0.7	-9.1	37.4	-8.8	-63.6
6th	-7.7	-1.7	5.5	-1.2	7.5	1.9	0.7	-5.8
7th	0.3	3.3	-6.3	28	4.8	-2.8	-4.2	28.2
8th	18.6	10.3	50.6	9.9	15.7	14.8	54.9	9.9
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Pitch Link, lb
	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1
MEAN	-1871.5	-353.9	0	-7364.7	-432	-432	-79	-79
RMS	285.9	18.9	0	445.1	16.7	16.7	8	8
1/2 P-P	677.8	45.3	0	850.7	37.8	37.8	16	16
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-61.1	-223.5	14.8	7.4	0	0	558.4	217.9
2nd	34.4	-9.8	-14.3	-6.2	0	0	-46.7	-2.5
3rd	40.4	43.2	9.5	4.8	0	0	-8.6	13.8
4th	189.7	-114.2	-2.8	-0.2	0	0	-22.4	6.3
5th	0.7	140.7	1.6	3.1	0	0	60.4	2.4
6th	7.3	-3.3	0.3	-0.1	0	0	13.1	-1
7th	2.3	-15	0.3	0	0	0	-3.4	13.4
8th	-23.6	-11.5	-0.5	-1.2	0	0	51.6	21.5

RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	-945.4	-3555.4	-876.1	-3981.2	-1092.3	-387.9	
RMS	404.8	651.5	401.2	693	569.4	482.2	
1/2 P-P	1258.1	1567.5	1131.1	1649.3	1335.4	1195	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	SINE
1st	-86.6	-307.3	-356.9	-219.4	299	-75.4	-366.7
2nd	215.3	91.8	-267.1	-49.5	-234.1	-109.8	324.5
3rd	-50.4	-205.1	50.4	17.3	-199.6	14.8	94.5
4th	-2.8	-16.7	20.4	19.9	2.2	-16.6	32.6
5th	107.7	30.5	-128.4	-2.1	-43.2	73.5	82.3
6th	-0.1	-10.1	2.4	11.9	-0.5	10	-263.1
7th	4	-5.8	-12.6	-20.9	-5.8	-8.6	132.6
8th	-8.4	6.5	39.1	73.1	-18.7	12.9	19.3
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Pitch Link, lb	
	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1	
MEAN	-1475.6	-415.2	0	-5397	-499.6	-90.1	
RMS	574	33.1	0	680.2	26.7	12	
1/2 P-P	1396.3	92.7	0	1689.1	83.5	25.7	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	SINE
1st	-50.5	-142.8	12.8	-3	0	360	8.4
2nd	37.5	8.9	-2.4	20	0	-301.5	-10.8
3rd	28	88.5	24	12.4	0	-47.4	-14.3
4th	-92.5	-83.7	-5.4	-6.6	0	-42.7	9.7
5th	-40.6	300.9	0.5	3	0	123.2	-16.8
6th	-13.9	34.8	0.4	0	0	-4.6	-3.4
7th	22.4	17.5	0.3	0.5	0	-12.7	-6.7
8th	3.3	-23.9	2.9	-0.4	0	26.4	-0.2

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb							
		Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.570	Blade 1, r/R=0.570
MEAN	-53.3		327.7		426.1		0		519.6		304.5
RMS	490.9		292.4		143.3		0		193.2		287.6
1/2 P-P	1338.4		805.6		418		0		565.2		752.4
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-202	-396.5	-138.4	-238.9	-76.1	-107.6	0	0	-72.8	-37.1	-201.4
2nd	-195	-217.4	-109.4	-127.1	-33	-22.4	0	0	19	71.6	107.3
3rd	208.6	32	115.3	21.6	12.3	0.5	0	0	-97.7	-9.6	193.5
4th	6.8	-17.1	2	-10.9	-4.4	-1.7	0	0	-12.7	15.3	16.5
5th	70.4	33	23.7	12.6	-32.8	-19.9	0	0	-103.3	-50	15
6th	11	11.4	2.2	4.7	-8.8	-4.8	0	0	-23.2	-15.2	12.3
7th	4.4	-5.8	1.3	-1.4	-2.6	4.1	0	0	-10.6	8.9	10.5
8th	9.1	-0.4	2.8	-2.8	-5.8	-6	0	0	-17	-5.4	11.1
RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb						
41/40	Blade 1, r/R=0.725		Blade 1, r/R=0.800		Blade 1, r/R=0.900		Blade 1, r/R=0.144		Blade 1, r/R=0.570		Blade 1, r/R=0.400
MEAN	283.8		98.4		-200.6		-4622.4		-2475		-445.6
RMS	470.9		560.3		379.2		1782.9		682.6		37.6
1/2 P-P	1111.7		1497.5		1103.9		3492.7		1745.5		97.7
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-456.7	-85.7	-575.9	-82	-339	-24.8	-1401.5	1939.3	12.8	468.2	-1.9
2nd	191	201.4	184	184.8	34.3	98.8	298.4	178.4	-98.2	-31.8	9.4
3rd	-64.3	-46	9.5	-37	53.4	-5.4	-30	11.6	38.8	-103.7	-17.5
4th	29.8	-36.3	9.9	-43.1	10.4	-16.5	3.8	-10.3	-121.1	-223.4	4.8
5th	178.1	121.1	207.4	148.7	131	112.9	-84	29.1	190.9	-16.4	5.1
6th	12.7	50.9	-9.5	55	-23.9	42.8	-13.7	14.7	14	-38.4	0.7
7th	-3.7	15.1	-9.9	37.6	-11.4	42.3	-0.3	17.9	-1.1	-23.8	-2.6
8th	-5.4	6.2	-23.2	3.1	-32.6	-2.1	78.8	-51.4	-79.9	53.6	-1.2

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
MEAN	-127.6	-2490.7	-27.6	-2904.8	-160	17.1
RMS	490.6	1732.6	466.3	1703	1411.3	896.8
1/2 P-P	1291.9	3434.2	1178.5	3287.9	2781.6	2099.6
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	409.4	-145.7	-1798.4	-1459.9	121.1	385.2
2nd	207.8	203.3	-290.9	-166.2	-214.8	-209.1
3rd	23.1	-251.8	13	17.5	-223.9	-58.1
4th	-1.8	-18.6	-35.1	27.1	12.5	0.4
5th	7	84.5	-59.1	-83.8	-80.7	17.1
6th	-7.6	-14.8	-3.3	6.1	14.4	11.7
7th	1.1	-3.7	19	-3	-6.3	2.1
8th	7.4	-9.2	68.7	-56.3	15.2	-1.6
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
MEAN	-1283.6	-436	0	-4367.3	-527.3	-87.3
RMS	778.8	38.9	0	1808.9	31.2	7.4
1/2 P-P	2055.7	97.5	0	3643.2	78.8	15.8
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	265.3	-610.2	1.3	0.1	0	1824.8
2nd	-27.8	19.1	9.6	33.9	0	-285.2
3rd	1.9	144.9	18.3	26.4	0	6.4
4th	-123.7	-326.6	0.7	0	0	12.9
5th	-296.8	152.7	-0.8	4.1	0	0
6th	-12.5	-19.7	0.3	2.8	0	5.1
7th	-33.6	40.5	2.2	-1.8	0	0
8th	-32.9	15.6	-1.4	1.7	0	0

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb							
	Blade 1, r/R=0.144		Blade 1, r/R=0.167		Blade 1, r/R=0.215		Blade 1, r/R=0.280		Blade 1, r/R=0.325		Blade 1, r/R=0.570
MEAN	597.7		736.2		598.5		0		603		400
RMS	394.5		224.8		109.2		0		189.2		282.6
1/2 P-P	945.1		544.7		322.1		0		526.1		690.5
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	SINE
1st	100.9	-67.9	44	-35.1	5.7	-12.5	0	0	-32.5	8.3	-163.2
2nd	-328.5	-198.1	-191	-116.7	-62.3	-15.9	0	0	33	77.5	165.3
3rd	92.1	101.3	49.8	56	7.7	1	0	0	-45.2	-44.9	-64.6
4th	-24	1.6	-13.3	-3.1	-0.6	-9.4	0	0	7.2	-14.4	15.6
5th	34.4	-38.7	11.2	-15.4	-20.7	10.4	0	0	56.4	47.1	13.7
6th	18.6	0.9	7.5	-1.2	-7.9	-5.9	0	0	-23.6	-5.4	14.8
7th	3.8	-0.8	1.9	-2.9	-0.4	-5	0	0	-6.4	-4	3
8th	1.1	7.6	2.2	-0.3	4.2	-10.2	0	0	1.2	-16.4	-5
RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
4 1/41		Blade 1, r/R=0.725		Blade 1, r/R=0.800		Blade 1, r/R=0.900		Blade 1, r/R=0.144		Blade 1, r/R=0.570	
MEAN	302.7		68.7		-314.2		-3521.8		-2361		-460.6
RMS	487.5		575.9		363.2		1887.7		981.7		40.1
1/2 P-P	1122.7		1377.1		948.8		3628.3		2398.8		98.2
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	SINE
1st	-444.4	-69.5	-579.8	-81.8	-300.9	-33.2	-2298.4	879.4	-189.1	247.2	-6.7
2nd	240.4	233.7	238.2	192.1	45.4	60.1	424.9	166.8	-147.8	-41.6	10.9
3rd	-23	-48.8	-3.7	-39.3	40.4	4.5	-22.4	6.9	89.5	-49.1	-0.3
4th	56.6	26.9	60.6	19.6	42.3	15.9	23.8	25.2	-247.8	-374.3	-6.3
5th	139.7	-71.3	161.2	-91.1	122.3	-62.7	24.6	96.3	-28	-231.2	4.5
6th	42.9	8.3	38.1	8.8	26.8	13.3	13.3	27.9	-23.6	-48.8	3.8
7th	15.7	-2.8	17	-9.8	16.5	-16.3	-1.5	11.2	-3	-10.4	0.9
8th	8.1	-6.9	12.2	-24.2	20.1	-29.3	72.9	-30.7	75.7	0.6	-1.8

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
MEAN	495.2	-1438.2	606.9	-1860.5	732.6	413.5
RMS	405.3	1973.1	396.9	1824.4	1511.9	1020.9
1/2 P-P	909.4	4096.2	901.8	3948.6	3136.8	2518.9
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	118.6	160.1	-816.8	-2464.3	-151.9	147.1
2nd	317	188.7	-382.5	-100	-311	-191.2
3rd	84.5	-147.8	4.6	43.1	-126.9	-81.5
4th	-31.8	-7.8	64.2	41.1	-41.7	-5.2
5th	52.8	41.6	-68.1	16.7	-53.5	62.6
6th	-22.3	-6.7	14.7	-1.9	23.6	-1.8
7th	-6.3	-7.3	-7.7	-8.2	-12.5	2.8
8th	23.4	10	66	-24.8	14.5	13.7
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
MEAN	-1100.9	-448.4	0	-3389	-543.3	-80.4
RMS	1000.2	40	0	1973.6	32.5	7.8
1/2 P-P	2524.6	91.9	0	4090.6	77.8	17.7
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	508.4	-286	3.7	-1.7	0	809.3
2nd	-106.7	-1.4	11.5	33.5	0	-357.3
3rd	-78.2	77.5	9.8	27.4	0	1.9
4th	-379.1	-365.9	5.3	-1.4	0	26.4
5th	2.5	263.7	-2.3	4.4	0	64.8
6th	-12.4	-37.1	4.7	2.7	0	-9.1
7th	33.8	-6	0.6	0.6	0	-31.5
8th	-35.7	1.3	1	-3	0	60.9

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
41/42													
MEAN	1929	1561.9	928.9	0	0	713	548.2						
RMS	632.7	365	165.1	0	0	177.9	285						
1/2 P-P	1468.9	864.1	480.4	0	0	585.7	735.3						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	582.7	-367.4	328	-215.9	113.2	-91.1	0	0	-29.3	-24.2	-174	-26.2	
2nd	-277.7	-24.2	-162.9	-12.9	-52.4	17.2	0	0	23.5	58.2	124	145.4	
3rd	95.1	-86	55.2	-45.5	7.2	-1.2	0	0	-50	52.8	-73.8	105.9	
4th	31.6	-8.9	16.9	-7.5	0.9	-5.7	0	0	-28.6	0.9	-2.1	15.3	
5th	-4.6	37.3	-3.5	14.3	-0.3	-14.8	0	0	1.4	-46	16	5.4	
6th	9.4	-4.7	2.5	-1.4	-8.2	1.9	0	0	-14.9	7.8	14.8	-2.8	
7th	3.3	3.6	-0.3	1.6	-2	-0.9	0	0	-2.4	-3.9	2.4	-1.6	
8th	-3.8	6	3.1	-0.2	14.7	-8.4	0	0	18.1	-11.8	-25.6	4.6	
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Chord Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400			
41/42													
MEAN	386.7	55.8	-475.5	-1459.6	-2160.4	-464.6							
RMS	471	543.3	380.4	3384.6	1472.9	58.7							
1/2 P-P	1273.3	1357.3	1079.6	5889.7	3543.5	166.8							
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-397.6	-87.6	-495.7	-122.7	-215.4	-70.6	-4471	1211.8	-557.7	328.7	2.6	11.3	
2nd	226.9	169.8	235.8	157.4	48.5	66.3	466.1	-27	-72.1	-75.2	29.8	23.7	
3rd	-2.1	123.2	25.6	128.1	59.3	121.7	14.7	-83.4	-134.3	31.2	-13.5	-12.9	
4th	26.3	2	13.6	10.8	-5.5	21.9	-46.7	24.6	325.8	-429.9	14.7	8.7	
5th	-33.8	76.3	-63.8	89.1	-68	55.9	3.1	-38.1	-36.9	86.3	-1.3	1	
6th	4.1	-23.4	-13.6	-24.9	-22	-22.8	-7.8	-7.9	-0.4	18.7	0.8	-5.6	
7th	-2	-6.7	-1	-21.4	20.2	-45.3	-25.8	-37.4	9.8	52.7	-1	-1.6	
8th	17.4	-13.4	40.5	-38.4	50	-43	23.3	-63.9	-46	80.7	1.8	-1.3	

RUN/POINT		Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
41/42		Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325	
MEAN	1871.5		559.9		2039.4		-235.5		2211.9		1098
RMS	697.4		3480.1		672.4		3389.3		2817.8		1780.1
1/2 P-P	1511.6		5963.6		1641.3		6266		5272.5		4067.5
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	438	681.2	-1229.1	-4646.1	-656.1	404	4524.2	-1172.1	3777.6	-901.5	2070.4
2nd	305	51.9	-405	-24.4	-320.8	-43.8	458.4	17.2	361.9	20.5	130.5
3rd	-97.1	-125.2	-74.9	-30.8	-116.9	103.7	10	85.1	22.5	76.1	126.6
4th	45.6	8.4	-47.2	76.3	31	-15.7	11.1	6.6	36.2	-43.5	150.6
5th	-29.2	15	27.9	-19.1	-49.6	-15.2	29.2	16	1.7	9.2	-99.7
6th	0.7	6.2	3.8	10.9	-17.9	-1.6	2.5	-18.8	-2.7	-7.3	-3.5
7th	13.3	1.5	-20.8	-11.9	3.2	-5.2	11	-1.3	4.1	-8.7	-10.5
8th	3.4	21	15.2	-47.6	4.1	-1.7	36.1	-42.3	32.3	-28.6	-6.1
RUN/POINT		Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Pitch Link, lb	
41/42		Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1	Blade 1
MEAN	-774		-452.4		0		-1366.5		-562.5		-61.9
RMS	1513		56.2		0		3527.4		48.2		6.7
1/2 P-P	3637.2		158		0		6322.1		132.7		16.5
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	1186.3	-440	-4.8	-7.9	0	0	1130.9	4729.8	10.2	-0.6	-6.1
2nd	0.9	-33.9	33	27.7	0	0	-446.7	-20.4	-19.3	-19.3	0.5
3rd	177	1.3	17.8	14.4	0	0	42	-19.2	8.9	-19.3	-2.6
4th	186.5	-426.2	10.1	8.1	0	0	-35.8	14.3	8.3	4.3	0.4
5th	-166.3	-45.5	3.6	1.5	0	0	-28.6	12.8	-3.5	3.9	-0.3
6th	-10	45	-1	-5.2	0	0	-9.2	23	-0.5	4.4	0
7th	-22.1	-18.3	0.6	3.6	0	0	-5.8	-31.8	1.2	-0.7	-0.1
8th	-33.2	33.4	1	-3.1	0	0	32.3	-49.9	-1.1	-1.9	-0.1

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
MEAN	3788	2715.3	1383.8	0	0	820.4	646.4						
RMS	960.4	564.3	240.4	0	0	357.6	452.2						
1/2 P-P	2771.3	1606.6	598.1	0	0	1041.9	1277.2						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-462.5	-190.3	-296.7	-94.3	-134.4	-17.6	0	0	-67.9	48.6	-115.6	-17	
2nd	-583.1	-117.4	-336.2	-68.1	-86.2	15.1	0	0	121.2	100.4	282.7	144.3	
3rd	-59	-383.1	-27.2	-212.9	-9.1	-20.6	0	0	34.8	172.8	25.7	354.4	
4th	-75.6	-132.5	-49.9	-78.8	-27.4	-18.1	0	0	10	59.3	29.7	97.6	
5th	201.4	-15.7	81.9	-1.9	-68.2	-1.8	0	0	-245.5	9.7	-9.4	22.6	
6th	-15.1	10.3	-3.6	4.3	13.8	-2.2	0	0	27.5	-9.4	-26.4	13	
7th	-12.8	11	-0.5	-1	17.6	-17.3	0	0	27.8	-28.9	-36.5	35.3	
8th	-20.1	30.8	-7.5	11.1	16	-15.2	0	0	28	-39.2	-38.6	35.1	
RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.725		Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Chord Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400	
MEAN	360.4	-62.4	-655	1216	-1702.6	-479.9							
RMS	712.2	822.9	606.1	3518.8	3988.1	130.3							
1/2 P-P	2109.9	2491.8	1972.2	8681.8	11699.2	376.4							
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-338.6	5.3	-417.7	33.8	-171.7	26	-1367.4	3592.2	20.1	725.6	31.1	33.5	
2nd	302.1	125.8	284.7	124.3	83.3	92.7	727.4	40.6	-98.8	-82	33.1	31.2	
3rd	69	307.7	85.3	255.9	107.3	157.1	100	-147.5	-276.9	145.7	-24.2	32.6	
4th	62.5	55.4	44.4	65.2	25	96.6	276.2	273.3	-2185.9	-2450.7	76.2	-31.6	
5th	523.9	52.6	641.7	40.3	458.1	45.4	-57.4	225.9	282.5	-442.4	14.4	-4.7	
6th	-14.4	28.5	15.4	6.3	25.4	-8.6	-18.9	10.4	19.3	-33.8	4.5	8	
7th	-14.5	-5.7	4.5	-52.8	21.5	-61.2	7.7	-31.2	17	17.8	-4.3	-3.3	
8th	-17.2	-9.9	-5.2	-49.2	-11.7	-50.1	-104	106.4	114.3	-115.1	-4.2	-0.5	

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
MEAN	3645.2	3329.8	3980	2579.1	4699.4	2396.4
RMS	961.2	3308	975.1	3420.6	2884.9	2847.6
1/2 P-P	2538	7472.3	2907.2	7876.6	7176.4	8837
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	195.6	-375.5	-3245.3	-1466.6	434.8	256.3
2nd	642.9	132.9	-757.3	-2.2	-655.1	-101.9
3rd	-449.1	53.4	-212.1	-87.3	101.1	457.8
4th	-93.8	-135.6	245.2	262.9	-84.1	-144.4
5th	82.6	188.8	-184.3	-32.3	-163.6	19.5
6th	22.2	-13	-19.2	-8	5.6	10.7
7th	6.9	12	26.6	-47.6	19.3	7.1
8th	-19.6	-30.6	-84.6	133.3	-14.6	-60.4
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
MEAN	-6.4	-463.5	0	1098.6	-593.5	-25
RMS	3501	124.2	0	3587.3	107.1	23.3
1/2 P-P	10152.4	396.7	0	8692.5	310.2	53.7
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	342	-1071.1	-35.4	-28.9	0	3616.9
2nd	-110.3	-68.9	55.2	40.6	0	-757.7
3rd	379.5	-434.9	34.1	-35.4	0	158.7
4th	-2135.5	-1605.3	60.2	-18	0	163.4
5th	-79	716.6	-11.5	-2	0	163.7
6th	-0.3	-60.4	4.7	5.6	0	0.7
7th	42.7	84.5	1.3	-1.2	0	-8.8
8th	69.3	-27.7	-1.5	1.8	0	-108.4

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
		Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.400	Blade 1, r/R=0.400	
MEAN	-3669.5		-1945.4	-514	86.9	161.5	-145.9				
RMS	352.7		199.2	89	151.6	173.3	237.4				
1/2 P.P	648.1		370.2	200.3	366.3	375.9	530.8				
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-80.2	90.1	-59.7	48.4	-53.9	10.3	-43.9	-16.6	-33.3	-24.2	
2nd	439.3	6.2	255.3	10.3	63.6	1.3	-52.6	-4.2	-86.1	-6.3	
3rd	90.7	-44.4	50.6	-22.9	4.1	-1.9	-28.5	16.4	-40.2	22.2	
4th	50.1	-26.3	27.8	-13.1	0.1	0.4	-20.9	14.2	-29.7	18.8	
5th	-66.3	139.5	-27.3	54.6	31.3	-43.6	82.9	-132.6	93.8	-163.6	
6th	-10.8	-7.8	-3	-4.4	5.7	-0.3	12.3	5.4	13.2	6.8	
7th	9.5	-10.8	1	-4.5	-11.7	2.3	-23.6	9.5	-23.3	13.3	
8th	-34.2	44	-3.1	6.8	42.8	-40.2	76.3	-74.6	68.1	-72.4	
RUN/POINT	Flap Bending, in-lb	Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
		Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.400	Blade 1, r/R=0.400	
MEAN	-253.3		-342.3	-168.6	-9477.1	-2918.4	-300.7				
RMS	390.4		433	307.2	656.5	484.6	38.5				
1/2 P.P	769.4		1002.8	761.9	1304.6	1203	82.4				
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	159.5	-41.9	193.5	-28	131.1	-5.4	782.4	-332.4	77.5	-48	
2nd	-325.1	-5.5	-289.9	5.6	-124.7	13.7	-275.9	-18.2	68.7	-32.6	
3rd	-196.1	57.7	-213.2	57.4	-170.4	40.1	7.1	9.4	-53.2	-8.7	
4th	-12.1	-11.2	-12.9	-9.4	-24.2	-1.9	-43.3	14.1	453.7	-229.9	
5th	-174.6	307.6	-196.7	371.4	-139.3	260.5	64.8	-175.6	-158.7	374.8	
6th	2.9	-14.8	37.1	-20.6	61.1	-15	22.9	10.6	-33.1	-4.6	
7th	8.8	-4.5	-11.2	5.6	-5.8	7.2	-16.7	8.2	14.3	-9.9	
8th	32.8	-24.9	96.9	-111.2	91.6	-113.6	-25.4	62.6	13.4	-58.5	

RUN/POINT		Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
		Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.174	Blade 3, r/R=0.325	
MEAN	-3722.3		-7348.6		-3745.2		-7348.8		-4026.5		-1482.1
RMS	338.5		710.8		350.6		722.5		590.1		461.8
1/2 P-P	651		1380.8		685.9		1427.1		1067.7		932.7
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-62.6	18.9	449.6	827.7	-44.4	-49.5	-811	480.3	-685.3	390.8	-367.7
2nd	-424.7	-0.5	264.2	6.5	443.1	22.7	-293.4	-0.2	-212.7	-8.4	-62.8
3rd	-46.1	-87.8	6.6	-4.1	-75.7	48.9	-6.8	-1.4	-4.7	3.4	22.2
4th	55.9	-36.4	-48.8	46.5	56.6	-30.9	-24.1	30	40.1	-17.1	299.6
5th	-149	-51.9	151.6	44	46.6	-159.3	-14.9	201.8	-5.1	97.8	92.7
6th	8.6	9.2	0.3	-14.4	-6.5	-5.7	12.8	19.4	8.4	11	-0.9
7th	-10.2	-17.6	-33	-8.3	-14.6	7.9	-38.7	-4.5	-31.9	-6.7	-12.6
8th	-23.9	59.4	-17.6	59.8	-34.3	51.6	-16.8	65.1	-15	49.9	-3.1
											36.5
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb									
28/12	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 4, r/R=0.400	Blade 1	Pitch Link, lb
MEAN	-1916.8		-296.2		-3545.1		-8903.7		-346.3		-37
RMS	549.4		40.4		354.1		685.4		35.6		17.8
1/2 P-P	1190.4		86.5		677.5		1375.8		77.7		30.5
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-192.9	129.3	-8.9	8.1	84.1	24.3	-392.9	-788.1	-0.2	-10.3	-14.3
2nd	23.7	-11.2	-41.9	-29.7	-441.4	-8.6	320.7	30	34.3	27.3	-1.1
3rd	45.4	19.2	1.7	1.5	42.3	93.1	-7.2	5.5	5.2	-5.6	-4.9
4th	413.5	-322.1	-15.8	3.5	51.5	-25.6	-38.3	23.8	-11.9	3.5	1.3
5th	84.2	-500.6	-5.8	-9.6	159.5	36.7	-170.9	-77.9	10.9	-6.4	-0.7
6th	-10.3	-28.6	3.8	-0.3	10.5	5.5	5.9	2.2	-2.1	-0.4	2.2
7th	25.5	4.3	0.6	1.2	8.5	16.6	-27.8	9.8	0.5	0.6	-0.9
8th	16.1	-32.5	3.4	-4.6	-29.4	76.2	-23	59	4.5	-7.6	0.9

RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.144	Flap Bending, in-lb Blade 1, r/R=0.167	Flap Bending, in-lb Blade 1, r/R=0.215	Flap Bending, in-lb Blade 1, r/R=0.280	Flap Bending, in-lb Blade 1, r/R=0.325	Flap Bending, in-lb Blade 1, r/R=0.570
MEAN	-2330.8	-1111.9	-170.9	239.1	286.4	-2.4
RMS	407.7	223.8	116.8	239.3	284.9	381.3
1/2 P-P	788	451.7	258.4	502	550.7	786.2

HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-71.1	-171.7	-63.5	-114.9	-71.8	-64.6	-105.2	-48.7	-114.8	-48.2	-161.2	-80.5
2nd	223.7	39.8	127.8	27.5	23.6	7.2	-39	-4.1	-56.2	-10	-262.7	-57.1
3rd	340.3	-221.8	189.6	-115.1	7.6	-15.8	-122.8	62.1	-165.4	92.7	-368.3	172.5
4th	135	-41.2	75.2	-21.5	4.5	-8	-58.6	10.2	-88	19	-101.8	10.1
5th	-68.4	227.1	-29.4	90.4	36.7	-72.6	96.6	-219.7	106.3	-268.8	-33.7	-6.2
6th	27.7	-19.4	10.2	-4.6	-14.5	10.6	-36.3	25.6	-41.2	30	25.1	-13.6
7th	44.9	-15.7	10.3	-7.1	-38.4	-2.5	-77.4	3.3	-81.1	11.6	92.7	13.2
8th	-22	-20.3	-2.5	-1.3	20.9	25.8	38.9	44.2	39	41.2	-33	-55.6

RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800	Flap Bending, in-lb Blade 1, r/R=0.900	Flap Bending, in-lb Blade 1, r/R=0.144	Chord Bending, in-lb Blade 1, r/R=0.570	Chord Bending, in-lb Blade 1, r/R=0.400
MEAN	-134.3	-277.2	-253.9	-8520	-2882.7	-354
RMS	631.6	701.7	541.4	503.2	1555.8	52.4
1/2 P-P	1300.3	1447	1248.8	1009.2	3028.3	102.3

HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-122.1	-100.7	-66.2	-69.5	25.7	-4.2	-563.1	204.1	-44.7	90.4	-3.6	4.1
2nd	-439.2	1.2	-460.2	22.9	-275.2	33	-114	21.6	177	-58.3	-40.2	-17.4
3rd	-470.5	226.3	-541.2	219.3	-459.6	149.6	53.6	73.8	-220.4	-120.7	-46.1	-17.4
4th	114	0.6	171.8	6.5	59.8	22.6	-152.7	104.7	1813.7	-1043.4	2.1	-14.6
5th	-162.6	501	-76.4	594.3	35.1	407.2	58.9	-244.1	-178.7	533.7	5.8	24.6
6th	60.1	-27.7	84.4	-29.7	162.8	-26.1	-10.4	8	-6.1	-1.1	1.7	-5.2
7th	36.9	-15	-108.8	13.7	-155.1	25.4	43.9	14.2	-48.9	-19.2	2.8	-6.9
8th	28.4	3.8	46.6	57.7	-43.3	89.3	-79.9	9.3	84.9	-23.8	4.1	1.8

RUN/POINT		Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		
		Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.174	Blade 3, r/R=0.325		
MEAN	-2353.6		-6439.6		-2368.4		-6476.4		-3237.1		-1184.8	
RMS	431.9		418.8		432.9		478.4		403.6		1022.5	
1/2 P-P	827.8		909.8		817		934.2		803.2		1923.5	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	
1st	212.1	25.4	-95.9	-458.3	-51.3	216.6	572.4	-87.6	475.1	-51.8	221.5	
2nd	-223.7	-33.5	114.6	-33.4	224.8	57.3	-118	53.5	-69.4	41.6	57.6	
3rd	-250.1	-344.6	63.9	-62.3	-348.9	243.2	-44.8	-62.3	-32.4	-22.1	75.6	
4th	145.9	-53.3	-172.5	124.7	152	-49	3.1	66.1	213.5	-91.4	1123.9	
5th	-244.1	-62.8	182	63.8	74.7	-229.9	-36.7	250.9	-12.6	116.3	149.8	
6th	-26.5	30.2	2.4	-1.6	27.6	-32.5	8.8	52.2	-0.4	28.5	-15.6	
7th	-16.2	-52	36	-40.5	-46.3	14.6	-9.7	-46.5	-4.5	-39.1	-7.9	
8th	-37.2	-15.2	-75.4	15.2	-33	-16.1	-78.9	15.3	-71.2	12.9	-38.3	
32												
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
		Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 4, r/R=0.400	Blade 4, r/R=0.400	Pitch Link, lb	
MEAN	-1838.4		-346.9		-2215.5		-8058.6		-410.7		-48.5	
RMS	1429.7		46.5		431.6		480.9		46.2		16.7	
1/2 P-P	2902.4		104		848.7		930.6		98.6		32.9	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	
1st	100.4	-68.6	3.5	2.5	-186.6	-9.4	109.6	569.5	5.9	1.4	-11.2	
2nd	143.7	-11.4	-39	-20.9	-236.1	-44.3	164.4	-29	37.1	17.8	-4.3	
3rd	164.4	131.9	40.5	12.9	243.8	365.5	-84.2	42.3	19	-38.8	-10.1	
4th	1486.9	-1160	-7.4	-7.9	150.4	-40	-78.5	113.8	-3.9	-7.8	2.1	
5th	163.5	-634.2	-7.8	-12.1	234.6	32.1	-190.9	-89.8	14.9	-10.7	0.5	
6th	-34.3	-79.3	0.8	-5.9	-31.2	22	7.9	-29.6	-0.7	4.2	0	
7th	19.3	30	-0.9	6.3	19.7	47.2	-2	2.7	7.6	2.1	-0.7	
8th	32.1	16.9	5	2.7	-36.9	-8.7	-79.9	5.9	4.7	2.4	-0.4	
32											0.5	

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
		Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325
MEAN	-1076.4	-333.4	148.2	378.9	405	253					
RMS	356.7	207.8	107.2	198.5	240.6	422.8					
1/2 P-P	641.8	366.9	224.8	430.4	485.1	776.2					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-234.5	34.3	-173.1	9.4	-118	-20.1	-134.9	-43	-145.7	-52.2	-384.2
2nd	136.1	31.8	74.9	21.7	2.3	5.9	-42.1	-1.8	-51.1	-7.2	-224.6
3rd	287.6	-205.1	160.4	-107	3.3	-13.8	-108.1	61.4	-146.8	90.1	-310.2
4th	150.7	-11.2	83.8	-6	8.2	-10.2	-58.3	-6.8	-89.5	-4.1	-129
5th	-100.3	126.7	-38.9	49.7	46.8	-39.1	126	-118.3	145.6	-146.8	-13.9
6th	33.3	-2.8	12.5	0	-15.3	-0.4	-40.1	1.6	-46.9	3.9	32.7
7th	25.1	5.6	7.7	-0.7	-15.1	-12.5	-35.2	-21.2	-39.2	-16.6	31.5
8th	17.2	-22.1	4.2	-8	-17	10	-30.4	23.8	-28.7	28.5	46.2
RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
28/14	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.144	Blade 1, r/R=0.144	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.400
MEAN	73.7	-153	-338.9	-338.9	-7370.9	-2913.6	-2913.6	-2913.6	-2913.6	-384.1	
RMS	670	765.2	553.6	1275.3	1630.9	52.6					
1/2 P-P	1268.9	1488.2	1203.4	2165.8	3131.1	100.8					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-260.6	-87.1	-131.9	-53.2	29.4	-2.9	-1720.1	391.9	-58.3	171.1	-6
2nd	-660.8	-32.3	-743.5	-12	-435.5	6.1	26	53.8	214.7	-74.8	-11.5
3rd	-370.1	188.6	-532.4	190.5	-507.8	131.8	139.6	61.1	-330.4	-164.1	-48.4
4th	188.6	24.8	330.3	12.3	163.5	28.8	-180.5	115.5	1957.7	-1029.7	23.3
5th	-277.3	292.1	-167.2	353.7	31.2	243.4	136.9	-93.8	-358	183.9	-6.2
6th	54.1	-9.7	-0.4	12.4	69.5	4.8	-1.3	-20.5	-23.5	34.9	9.1
7th	48.5	-11.6	-55.8	-143.7	-61.6	24.8	20	-23.4	-18.2	2.4	-3.2
8th	-16.1	8.4	-24.6	32.5	-89	38.3	9.8	-94.7	5.2	90.4	-2.4

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
28/14	-1080.6	-5364	-1062.3	-5364.5	-2262.3	-835.2
MEAN	343.6	1205.5	338.7	1313	1096.1	1140.1
RMS	614	1945.4	588.1	2048.3	1849.5	2273.1
1/2 P-P						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	10.5	-113.5	-306.2	-1628.4	120.7	11.8
2nd	-147.9	-33.2	12.8	-44.3	138.8	43.9
3rd	-242	-281.7	48.6	-152	-283.7	224.1
4th	156.6	-15.5	-225.6	110.7	158.9	-22.8
5th	-142.7	-103.2	110.9	130	102.4	-148.3
6th	-42.3	6.9	14.9	-7.2	36.2	-5.6
7th	7.5	-23.1	47.6	3.3	-27.4	-5.8
8th	32.9	-17.7	3.9	-99.3	21.2	-13.2
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
28/14	-1764.9	-373.8	-968.8	-7006.9	-452.4	-49
MEAN	1453.3	44.2	361.1	1300.6	45	20.7
RMS	2868.2	89	626.6	2137	84.2	38.3
1/2 P-P						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	298.8	-172.9	5.1	0.1	20	142.4
2nd	182.6	-60.5	-36.9	-14.7	-155	-26.9
3rd	246.3	168.5	41	13.3	247.9	306.2
4th	1637.6	-1001.6	12.8	7.7	164.6	-18.3
5th	402.3	-327.9	0.6	-5.4	133.1	100.2
6th	24.6	-33.9	2.6	-8.8	-33.2	-2.4
7th	-9.2	2.3	-2	3.7	-3.3	20
8th	-10.9	41.1	-2.5	4.1	17.2	-30.5

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
28/15	Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.570	
MEAN	-521.7	14.8	287.7	443.3	462.8	443.3	462.8	443.3	462.8	364	
RMS	363.1	213.2	112.8	212.7	255.9	212.7	255.9	212.7	255.9	452	
1/2 P-P	636.9	376.8	236.6	430	502.7	430	502.7	430	502.7	843.8	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-258.9	-11.5	-191.7	-17.2	-125.7	-33.6	-142	-50	-154.5	-58.8	
2nd	146.7	22.5	81	16.3	2.3	4.4	-45.5	-0.9	-56	-454.5	
3rd	249.5	-216	139.5	-113.4	1	-13	-97.1	66.8	-130.6	-235.3	
4th	158.5	-36.2	88	-20.1	7.9	-10.9	-63	2.5	-95.8	-235.3	
5th	-116	144.8	-44.5	57	55.7	-44.7	147.7	-136.2	170.2	-168.6	
6th	32.3	-13	13	-4.7	-13	2	-36.2	9.4	-43.6	13.6	
7th	26.8	-1.9	7.9	-3.2	-17.6	-8.5	-41.3	-12	-44.6	-6.9	
8th	22.8	-5.2	8.7	-5	-14	-7.2	-30.3	-7.9	-31.5	-2.7	
RUN/POINT	Flap Bending, in-lb	Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
28/15	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.400	
MEAN	181.4	-98	-392.2	-6135.4	-2859.3	-398.3	-398.3	-398.3	-398.3	-398.3	
RMS	742.8	862.4	584.3	1854.1	1652.5	57.2	57.2	57.2	57.2	57.2	
1/2 P-P	1387.8	1639.1	1233.6	3087.6	3223	126.2	126.2	126.2	126.2	126.2	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-330.1	-98.7	-152.7	-47.7	37	18.3	-2428.6	903.1	-89.8	297.9	
2nd	-765.4	20.5	-894.9	44.2	-505.2	37.4	42.4	96.8	244.1	-2.2	
3rd	-303.2	159.5	-485.5	172.9	-499.8	128.3	174.7	50.9	-389.1	-40.5	
4th	201.8	-2	385.6	-54.3	203	-24.7	-156.4	127	1836.3	-47.1	
5th	-327.2	351.4	-237.1	416.4	-13.6	267.2	139	-111.4	-388.2	-16.0	
6th	53.2	-32.3	-12	2.8	50.9	0.2	-4.4	-2	-20.6	-7.7	
7th	45.5	-14.9	-48.3	-40.7	-139.8	-26.5	-4.3	-9.1	5.1	-47.1	
8th	-11	0.8	-27.9	-16.2	-82.3	-12.6	-85.9	-37.1	-75.6	-3.2	

RUN/POINT		Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
		Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325	
MEAN	-565.9		-3688		-476.2		-4460.2		-1490.5		-549.6
RMS	355.2		1745.5		342.6		1924.8		1603.3		1331.6
1/2 P-P	656.3		2902.8		650.8		2917.6		2541.2		2728.5
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	61	-153.6	-818.1	-2289.9	147	87.7	2560.1	-858.5	2136.3	-679.2	1037.3
2nd	-156.2	-26.9	-7.3	-84.6	143.6	37.6	42	110.8	60.6	84.4	142.6
3rd	-263.8	-256.4	36.7	-184.4	-249.4	232.3	-168.6	-34.2	-112.1	-0.4	133.7
4th	161.5	-37.1	-214	137.3	168.1	-34	-5.1	65.9	216.5	-103.6	1168.8
5th	-147.4	-98.6	115.7	123.7	91.6	-158.8	-99.7	147.6	-38.7	67	249.3
6th	-38.5	11.4	31.3	-10.6	28.6	-5.7	-28.1	21.1	-22.7	8	-212.3
7th	1	-24.7	10.7	-31	-28.5	-1	-11	-39.5	-9.2	-35.4	-10.2
8th	32.7	9.1	89.6	-45.9	14.2	1.8	90.7	-36	80.8	-24.7	41.7
RUN/POINT		Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
28/15	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Pitch Link, lb Blade 1
MEAN	-1665.1		-385.5		-440.9		-5651.6		-470.7		-50.2
RMS	1561.2		45.7		364.8		1895.8		48.6		20.9
1/2 P-P	2999.6		94.1		674.3		3009.5		100.7		37.7
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	457.5	-367.5	2.5	-5.8	-44.2	159	827.3	2523.2	15.1	-3	-16.5
2nd	202.3	-66.7	-36.9	-12.1	-169.1	-33.6	5.8	-94.4	37.8	10.2	-4.7
3rd	313	169.5	39.4	8.6	270.6	263.7	-59.5	178.2	12.3	-35.5	-8.1
4th	1553.8	-1285.4	20.1	19.6	159.6	-28.4	-79.2	123.2	32.3	17.6	6.2
5th	355.6	-366.5	0.9	1.4	166.8	92.7	-131.2	-141.6	-1.4	0.3	1.7
6th	29.6	-32.3	2.4	9.1	-27.7	2.4	9.5	20.4	-2.4	7.9	1
7th	4.7	12.3	-1	3	-0.4	23.5	-31.8	-15	1.1	-0.9	0.3
8th	-35.7	18.4	-2.4	1.7	21.6	-1	80.3	-25.7	-1.8	0.3	-0.6

RUN/POINT		Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
		Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.174	Blade 3, r/R=0.325	
MEAN	165.8	-3268.1	244.9	-3757.4	-874.8	-337.5					
RMS	349.9	2464.4	343.1	2568.4	2140.5	1468					
1/2 P-P	680.1	3950.6	671.8	3986.5	3373	3007.1					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	106.3	-146	-1294.5	-3206.5	149.2	138.9	3337.9	-1380.6	2789.8	1354.8	
2nd	-123.1	-80.4	-34.4	-98.9	110	91	33.5	139.1	53.9	111.5	
3rd	-263.6	-287.2	54.6	-216.6	-278.9	228.1	-209.7	-38.3	-143.1	4.5	
4th	141	10.3	-205.9	86.3	164	13.1	34	43.5	239	-97.2	
5th	-90	-41.2	11.1	59.8	26.5	-89.4	-19.8	6.5	3.3	-6.8	
6th	-28.8	-7	21.8	-1.8	31.7	12.4	-15.8	-2.4	-14.8	-5.3	
7th	-4.3	-22.1	10	9.5	-14.3	5.8	-16.6	16.4	-16.3	7.4	
8th	39.2	2.3	131.7	-116	41.7	7.4	139.9	-94.8	127.9	-77.4	
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
28/16	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 4, r/R=0.400	Blade 1	
MEAN	-1628.5	-401.4	256.1	-4948.6	-493.3	-46.4					
RMS	1498.9	45.2	354.5	2594.1	45.2	22.5					
1/2 P-P	2928.6	101.3	680.4	4005.5	98.3	42.1					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	596	-566.9	-1.9	-8.9	-87.3	155.3	1313.3	3404.8	18.3	-7.3	
2nd	215.3	-61.8	-31.7	-13.3	-129	-80.9	-24.6	-112.9	28.2	13.3	
3rd	345.7	229.4	37.3	9.6	269.8	294.3	-69.3	201	12.4	-31.3	
4th	1475.3	-1152.3	13.7	28	136.2	17.8	-96.1	63.3	20.4	29.3	
5th	133.1	-89.8	-3.5	8.3	95.8	27.9	-17.9	-48.1	-9.1	-6.1	
6th	18.9	6.2	6.6	-6.7	-21.3	-20	7.5	26.1	-5.1	1.1	
7th	0.9	-19.4	1.4	1.4	3.2	19.1	-9.7	26	0.7	-1.4	
8th	-57.7	33.2	-6.1	0.7	30.5	-0.7	146.6	-72.4	-4.3	-0.9	

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
		Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.370	Blade 1, r/R=0.570	Blade 1, r/R=0.400		
MEAN	1606.6	1339.8	832	684.5	665.5	660.1	660.1				
RMS	377.6	239.2	125.2	183.4	213.6	526.7	526.7				
1/2 P-P	671.4	415.9	273.2	469.5	510.6	1011.7	1011.7				
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-336.1	24	-249.4	10.8	-148.7	-30.6	-165.1	-60.2	-176.9	-75.1	-567.5
2nd	81.7	113.1	40.7	69.1	-10.9	20	-43.1	-6.5	-49.3	-17.8	-141.1
3rd	273.6	-225.3	152.8	-119.5	1.2	-15.7	-106.4	66.3	-143.7	98.5	-228.5
4th	134.8	-0.6	75	-4.3	10	-17.2	-50.8	-20.2	-80	-18.7	-306.7
5th	-52.4	15.1	-19.4	4.8	22.1	-6.8	59.7	-14.6	69	-16.9	-104.6
6th	25.2	8.9	11.8	2.3	-4.9	-10.9	-21.2	-20.6	-28.7	-20.7	-9.5
7th	1.3	-6	1.3	-3.4	0.2	-1.4	-2	0.5	-3.2	4.3	5.2
8th	33.2	7	12.6	-12.5	-18.3	-40	-40.8	-55.7	-44.4	-42.9	35.5
RUN/POINT	Flap Bending, in-lb	Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
		Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.400	Blade 1, r/R=0.570	Blade 1, r/R=0.400		
MEAN	572	61.3	-564.4	-3805.6	-2912.8	-419.2					
RMS	814.8	929.7	613.4	3623.6	1701.3	52.3					
1/2 P-P	1570	1688.1	1151	5767.6	3506.2	123.7					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-713.4	-113.5	-316.4	-57.6	28.4	-7.5	-4567.6	2250.6	-148.5	669.1	-4
2nd	-831.9	-80.2	-1167.4	-13.3	-681.9	27.5	209.9	93.6	316.8	-129.9	25
3rd	-181.3	135.5	-262.2	80	-408.4	96.6	227.6	100.9	-529.3	-206.3	-10.9
4th	128.1	68.2	359.5	56.9	263.1	3.3	-167	143.5	1602.9	-1441.3	-37.5
5th	-138.5	23.5	-153	76.6	27.7	17.4	117.2	13.6	-233.1	-53.5	5.6
6th	45.4	23.6	10.9	-39.3	-10.4	-11.6	-24.3	24.3	25.6	22.7	36.8
7th	6.5	-7.4	3.6	-1.6	-52.4	-6.5	12.8	-14.9	6.9	14.1	30.7
8th	-6.6	-47.3	-70.3	-57.8	-62.3	-45.9	211.6	-169.4	-209.1	178.7	-1.3

RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
28/17	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	1608.8	-1666.8	1716.5	-2373.4	353.9	104.6		
RMS	337.8	3606.7	378.5	3652.4	3049.7	1845		
1/2 P-P	623.1	5633.9	671.8	5676.6	4794.7	3934.7		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	21.8	-219.9	-2075.8	-4625.5	268.7	44.8	4612.8	-2259.9
2nd	-83.4	-82.6	-185	-105.9	82.9	113.6	230.1	139.2
3rd	-257	-249.5	69.4	-254.4	-295.6	271.4	-221.9	-66.6
4th	145.1	-33.8	-149.1	72.4	139.6	-5.5	14.8	49.6
5th	-21	-78.2	-37.6	68.9	54.8	-3	-112.1	-14.8
6th	-33.6	2.6	47.3	-21.1	22.7	20.4	-23.1	-53.1
7th	10.7	-3.4	0.2	-26.5	1.4	7.2	-25.1	-16
8th	51.2	-12.8	184.9	-181.3	46.3	17.8	193.9	-197.9
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Pitch Link, lb
28/17	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1
MEAN	-1539.8	-404.4	1668.8	-392.4	-392.4	-507.9	-26.9	
RMS	1648.6	46	330.3	3706.7	3706.7	47.4	32.2	
1/2 P-P	3494.9	118.8	604.5	5710.4	5710.4	121.6	57.3	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	780.8	-895.8	4.6	-19	-6.8	183	2033	26.2
2nd	295.6	-93.3	-13.9	-12.5	-80.8	-82.5	-159.4	-152.3
3rd	491.4	188	36.2	-14	255.8	256.5	-89.1	207.3
4th	1166.8	-1440.8	26.9	27.6	153.2	-27.3	-32.9	76.5
5th	286	59.4	-3.4	14.3	34.2	80.8	36.3	-60.3
6th	55.4	6.9	-2.2	-4.2	-24.5	-2.4	17.9	-3.9
7th	-10.4	11.7	2.6	2.3	-9.9	2.9	12.6	-16.7
8th	-85	70	-1.3	-4.3	44.3	-15.7	210.3	-161

		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
RUN/POINT		Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325
MEAN	2951.9	2176.5	1164.7	825.8	777.9	799.4	799.4	799.4	799.4	799.4	799.4
RMS	447.5	286.1	132	171.2	199	488.8	488.8	488.8	488.8	488.8	488.8
1/2 P-P	1101.9	646.9	306.2	414.7	459.8	1009.6	1009.6	1009.6	1009.6	1009.6	1009.6
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-329.4	331.1	-250.1	204.9	-145.8	53.1	-162.2	-26.8	-169.9	-52.2	-564.3
2nd	-191.7	113.5	-123.8	66.2	-57.6	23	-25.3	-0.9	-15.2	-10	-106.7
3rd	245.6	-210	137.2	-112.2	4	-17.9	-90.6	57.4	-123.3	89.3	-82.1
4th	54.6	-2.7	31	-4.8	13.1	-19.8	-9.5	-24.3	-24.1	-18.4	187.1
5th	-103	-26.9	-39.8	-11.7	33.1	12.2	100.8	36.5	120.6	43.1	-61.3
6th	-3.7	-9.2	2.4	-5.1	5.8	-0.8	9.8	3.9	8.8	5.6	-2.6
7th	10.2	10.2	1.5	-0.3	-9.6	-15.9	-19.4	-28.3	-22	-24.6	-4
8th	-2.5	9.3	8.7	4.9	22.8	-0.9	32	-7	25.1	-8.3	36
											-0.3
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb
28/18	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.144	Blade 1, r/R=0.144	Blade 1, r/R=0.144	Blade 1, r/R=0.400
MEAN	673.5	76.3	-655.8	-1679.3	-2652.5	-428.1	673.5	673.5	673.5	673.5	673.5
RMS	788.9	805.7	525.7	4109.6	1076.4	129.5	788.9	788.9	788.9	788.9	788.9
1/2 P-P	1527.1	1669.4	1134.6	6406.6	2321.8	445.9	1527.1	1527.1	1527.1	1527.1	1527.1
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-842.9	-59.3	-454.4	22	-19.7	44.5	-5238.7	2386.6	-125.3	690.7	7.1
2nd	-608.1	-99.9	-933.5	-89.1	-589.5	-12.4	561	12.7	273.3	-109	103.6
3rd	-157.8	200.1	-215.3	154.4	-352.8	82.3	224.1	86.3	-546.7	-167.7	14.1
4th	27.6	116.3	178.7	147.8	141	95.6	-152.2	26.6	701.2	-767.9	-50.7
5th	-228.6	-72.4	-253.1	-61.4	-46	-15.5	133.1	24.1	-244.4	-163.8	-86
6th	-1.1	-14	-15.1	-14.1	-20.8	10.3	-2.7	27.3	20.9	-57.7	-34.4
7th	13.7	-2.9	-16	-40.7	-69.1	-65.2	-9	25.9	9.7	-33.8	5.2
8th	23.8	3	42.5	-18.6	49.6	-41.2	149.3	103	-160.6	11.4	4.8

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
28/18						
MEAN	3103	627.1	3286.1	-446.9	2069	883.5
RMS	281.1	4656.3	289.3	4727.5	3945.7	2125.3
1/2 P-P	649.8	7086.5	639.9	7135.7	5923.8	3902.4
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-91.5	-78.1	-2646.1	-5988.7	143.6	-14.7
2nd	141.8	-83	-468	-110.9	-115.6	77.4
3rd	-216.2	-211.1	35.6	-214.4	-256.6	199.6
4th	76	1	-114.5	169.9	79.6	-6.9
5th	0.7	-95.1	-12.6	84.4	62.7	35.6
6th	4.4	-3.3	30.4	-28.6	-11.2	-0.3
7th	10.8	-23.3	7.9	-24.8	-14.6	-12.3
8th	6.6	34.1	144.9	73	-5	19.6
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
28/18						
MEAN	-1165.2	-380.3	3073.5	-1558.6	-514.5	-4.3
RMS	1430.6	70	339.6	4530.4	116.2	48.6
1/2 P-P	2915.5	242.4	744.3	7054.3	366.9	116.9
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	1043.6	-1197.5	11	-18.4	79.1	176.7
2nd	320.5	-98.6	62.1	15.6	195.1	-97.4
3rd	436.8	202.4	6.7	-1.8	239.4	227.1
4th	193.2	-1008.5	50.5	-26.4	66	12.9
5th	243.1	144.9	5.4	19.1	-13.1	100.9
6th	47.1	-16.4	-20.1	-1.5	14.8	-6.5
7th	9.5	32.4	4.1	-2.8	-9.3	17.6
8th	-73.4	-42.8	6.7	2.6	-6.8	33.6

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570		
22/19		-339.2	131.1	-618.1	465.8	487.3	372.2							
	RMS	359.7	226	121.1	139.4	156.8	375.3							
	1/2 P-P	693.7	414.7	290	328.3	356.6	740.7							
		HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	
1st		-316.6	288.5	-226.4	167.3	-120.1	-19.7	-136.3	-23.3	-143.4	-41.2	-421.4	-100.1	
2nd		75.2	39.7	38.9	25.7	-29.9	2.7	-35.9	2.8	-40.8	-2.2	-155.1	-52	
3rd		184.5	-134.1	102.9	-69.6	-57.2	36.1	-68.6	42.6	-94.7	62.9	-213.2	110.3	
4th		106.8	-4	59.3	-3.9	-33.2	-10.8	-37.5	-12.8	-59.3	-12.7	-82.5	-12.7	
5th		-18.6	46.5	-7	19	24.8	-37.1	29.9	-43	33.6	-52.6	-7	-1.6	
6th		21.9	0.6	9.3	0.7	-19	-2	-22.8	-1.6	-28.3	-2.2	10.8	3.3	
7th		4.3	-2.9	-0.6	-0.6	-10.8	3.7	-13.6	3.3	-15.7	7.3	14.5	-0.5	
8th		10.5	12.5	5.6	-1	-6.8	-29.4	-6.5	-34.5	-9	-28.4	-2.2	42	
		RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800	Flap Bending, in-lb Blade 1, r/R=0.900	Chord Bending, in-lb Blade 1, r/R=0.144	Chord Bending, in-lb Blade 1, r/R=0.570	Chord Bending, in-lb Blade 1, r/R=0.570	Torsion, in-lb Blade 1, r/R=0.400					
22/19		MEAN	358.3	47	-341.8	-5618.7	-2872.6	-410.5						
	RMS	591.5	702.2	521.3	1461.3	1001.2	45.5							
	1/2 P-P	1058.7	1266.4	1090.6	2305.9	2145.2	95.8							
		HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	
1st		-564.4	-59.2	-320.1	-13.8	4.6	23.8	-1983.1	490.6	13.6	208.4	3.8	13.8	
2nd		-560.8	-33.8	-852.8	6	-565.1	26.2	124.5	0.5	171.1	-66.8	-37	-12	
3rd		-137.5	87.8	-171.1	51.1	-305.7	48.6	120.7	36	-281.5	-94.4	-31.5	-16.8	
4th		94.3	52.8	291.4	46	258.3	9.8	-122	91.7	1112.2	-708.1	26.4	15.3	
5th		-55.7	98.7	-61	147.3	93.8	100.3	33.3	-42.4	-84.2	72.9	-0.2	-4.7	
6th		43	3.1	7.9	-18.7	-38.2	-4.1	-20.2	-0.9	25.2	-0.2	2.4	-4.2	
7th		3.2	-3.1	-3.6	1.9	-73.8	0.1	16.2	-8.5	-2.5	4.8	-2.7	-0.5	
8th		7.9	-22.7	-22.8	-47.8	-11.6	-41.1	95.4	17.8	-97.2	-6.3	0.3	-2.5	

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
22/19						
MEAN	-376.6	-3313.7	-293.9	-4060.1	-1190.4	-575.5
RMS	300.5	1449.4	305.4	1572.8	1309.9	880.1
1/2 P-P	627.2	2288.1	653.6	2426	2077.4	2034.5
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-228.2	-208.1	-377	-1989.2	200.8	-231.5
2nd	-75.4	-34.9	-89.2	-2.5	77.1	56.1
3rd	-160.5	-185.1	31.4	-133	-208	154.2
4th	102.4	-15.1	-162	79.6	108.2	-110.4
5th	-69.9	-14	40.2	54.5	38.6	-19.6
6th	-18.1	11.1	24.1	4.3	15.1	1.7
7th	3.1	-10.8	5.9	-9.9	1.5	-1.3
8th	-1.4	3.9	90.9	5.6	13.9	19.5
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
22/19						
MEAN	-1736.8	-393.4	0	-5151	-483.4	-80.9
RMS	919.9	40.9	0	1580.2	39.6	21.5
1/2 P-P	1856.8	86.7	0	2361.2	83.3	38.3
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	314.9	-235.7	-2	-4.5	0	348.8
2nd	147.8	-77.2	-33.7	-13.1	0	-103.4
3rd	243.8	121	30.4	12.4	0	-34
4th	911.2	-725.1	20.5	17.4	0	-29.4
5th	159.8	-41.7	1.4	7.9	0	-20.3
6th	14	0.1	0.2	-3.3	0	6.7
7th	-9.8	13.1	3.7	0.4	0	9.5
8th	-39	-9.1	1.6	-2.5	0	94.1

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
34/31													
MEAN	-3488.3		-1810.3		-436.5		189.3		207.3		-91.3		
RMS	518.1		313.8		141.9		112.1		122.3		225.3		
1/2 P-P	828.4		509.2		247.8		304.3		312.4		480.6		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-579	272.4	-363.3	155.7	-182.8	50.8	-110.8	-0.9	-99.6	-12.4	-65	-35.1	
2nd	267	15.6	155.3	13.8	36.4	3.4	-31.1	-1.7	-52.8	-5.8	-211.8	-29.7	
3rd	173.1	-138.2	97	-71.9	4	-7.9	-59.7	39.4	-83.2	58.7	-192.3	95.4	
4th	64.2	-20.2	34.9	-10.1	0.2	-1	-29.1	10.1	-41.7	12.9	-47.8	8.5	
5th	-12.6	17	-5.1	6.9	6	-4	17	-13.9	19.7	-17.9	-8.5	-1.1	
6th	12.9	-14.8	4.9	-5.1	-6.7	5	-18	14.9	-19.4	18.2	15.4	-9	
7th	15.8	-8	4.7	-3.2	-11.2	0.9	-24.3	4.8	-28.6	7.4	29.6	1.6	
8th	-14.6	-14.4	-2.6	-2.7	12.3	13.4	23.4	26.9	21.3	25.6	-17.6	-35.6	
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725		Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Chord Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400		
34/31													
MEAN	-209.6	-312.2	-167.9	-8474.7	-2719.7	-327.7							
RMS	282.9	293.7	228.2	995.9	552.7	32.6							
1/2 P-P	516.6	588.7	540.5	1578.2	1091.2	72.4							
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	33	-44.9	79.2	-36.4	89.3	-14.3	1382.6	-180.5	240.4	-0.3	2.7	-12.3	
2nd	-286.4	11.7	-278.6	27.3	-153.8	25.7	-111.2	-38.1	90.1	-30.8	-36.2	-15.3	
3rd	-228.7	116.3	-240.9	117.1	-198.4	85.2	2	38.2	-68.4	-26.8	-17.6	-3.9	
4th	49.3	-17.6	73.9	-26.4	40.6	-11.9	-65.2	26.3	625.6	-350.6	-2.2	-1.8	
5th	-22.2	31.2	3.1	25.4	34.8	5.4	12.3	-9.6	-45.5	20.7	0.6	1.5	
6th	29.6	-18.3	29.4	-8.6	42.1	-8.7	2.9	-4.3	-5.6	6.4	2	-2.3	
7th	14.8	-11.4	-30.6	9.5	-52.8	23.1	27.4	17	-26.7	-15.6	1.2	-1.7	
8th	9.5	7.4	28.9	36.7	3.5	56.5	-21	-1.4	26.6	-0.2	1	0.4	

RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	-3608.2	-6101.7	-3553.1	-6670.7	-3526.3	-1470.3
RMS	462.7	1041.8	454.7	1014.1	829.3	600
1/2 P-P	764.1	1659.7	771.4	1605.2	1303.5	1156.9
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-256.1	-488.7	302.5	1427.3	477.6	-241.7
2nd	-256.9	-17.7	105.4	41.5	266	32.3
3rd	-148.2	-164.9	28.6	-2.9	-159.9	146.1
4th	67.7	-24.2	-78.2	55.6	71.7	-22.2
5th	-28.1	-11.8	13.5	-5.2	16.8	-25.6
6th	-17	16.9	0.3	-8.6	16.2	-13.5
7th	-5.5	-17.8	29.5	-6.3	-16.4	8.6
8th	-11.6	-17.3	-24.9	-7.9	1	-7.6
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Pitch Link, lb
	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1
MEAN	-1905.7	-319.7	-3367.7	-7871.7	-373.8	-45.2
RMS	563.5	33.4	507.9	1014.4	30.3	20
1/2 P-P	1164	74.8	819	1618.5	69.3	36.4
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-424.9	79.3	0.4	18.3	31.0	532.5
2nd	64.4	-24.9	-35.3	-17.2	-273	-17.4
3rd	51.9	36.6	14.5	1.8	151	177.6
4th	484.6	-429.7	-7.8	2.5	69.7	-19.6
5th	62	-45.7	-1.1	-1	20.1	6.2
6th	12.1	-26.7	2.6	-1.6	-13.8	12.6
7th	-8.4	2.7	-0.2	1.7	7.9	14.5
8th	5.9	6.3	0.5	1.3	-13.1	-2.3

RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.144	Flap Bending, in-lb Blade 1, r/R=0.167	Flap Bending, in-lb Blade 1, r/R=0.215	Flap Bending, in-lb Blade 1, r/R=0.280	Flap Bending, in-lb Blade 1, r/R=0.325	Flap Bending, in-lb Blade 1, r/R=0.570
MEAN	-2248.7	-1041.9	-123.8	323.4	315.3	93.8
RMS	351.4	210	103.7	140.1	166.5	324.3
1/2 P-P	614.6	335.4	208.3	276.3	331.9	637.3
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-309.5	93	-208.1	46.2	-128.3	-0.3
2nd	110.4	64.4	61.1	40.9	2.3	13.9
3rd	260.4	-195.8	146.9	-102.4	7.8	-13.1
4th	105.9	-9.4	59	-4.5	7.2	-6.7
5th	-58.5	55.7	-23.3	23.2	23.4	-11.5
6th	25.4	-16.2	11.1	-7	-8.5	1.5
7th	18.5	-4.5	5.9	-2.6	-11	-2.7
8th	-3.9	-2.4	1.9	0.2	8.4	2.1
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800	Flap Bending, in-lb Blade 1, r/R=0.900	Chord Bending, in-lb Blade 1, r/R=0.144	Chord Bending, in-lb Blade 1, r/R=0.570	Torsion, in-lb Blade 1, r/R=0.400
MEAN	-18.2	-176.9	-211.5	-7449.3	-2718.2	-367.4
RMS	428.2	486.5	391.9	202.2	1019.7	44.6
1/2 P-P	807.4	976.1	846.6	559.1	1903.2	92.9
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-228.4	-77	-136	-54.4	15.6	-4.2
2nd	-394.4	-10.1	-479.7	15.4	-325	29.8
3rd	-268.8	165.8	-342.4	161.1	-347.4	113.1
4th	101.3	14.9	217	0.4	139.9	1
5th	-145.3	107.3	-85.9	125.1	66.1	70.5
6th	56.4	-32.4	13.7	-10.3	46.3	-0.5
7th	32	-12.9	-29.3	-20.4	-107.7	-0.1
8th	1.3	8.8	24	3	-224	6.7

RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	-2342.1	-5146.8	-2285.5	-5604.5	-2586.4	-1114.3	
RMS	323.3	197.6	317.3	179.1	169.7	659.8	
1/2 P-P	583.7	560.8	561.6	463.5	414.2	1266.5	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-41.8	-202.1	-55.8	33.7	191.8	-15	114
2nd	-103.1	-69	0.6	40.3	95.7	84.2	20.1
3rd	-235.5	-265.7	51	-55.1	-269.3	224.5	-35.2
4th	114.4	-15.6	-161.3	88.8	117.8	-16	-10.8
5th	-62.2	-69.7	54.9	97.7	73.4	-58	-110.7
6th	-34.1	13.2	23.2	-15.9	27	-9.1	-24.2
7th	-3.3	-21.8	-6.6	-18.3	-20.2	3	-22.7
8th	8.1	11.9	10.3	10.8	4.1	13.4	7.7
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Pitch Link, lb	
	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1
MEAN	-1793.3	-357.4	-2141.6	-6922.4	-425.2	-52.8	
RMS	921.2	42.2	337.9	160.7	38.1	16.5	
1/2 P-P	1786.7	102.2	621.3	495.1	82.7	34	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-80.7	-81.6	10	12.7	93.4	241.7	46.1
2nd	99.8	-39.4	-32.6	-15.7	-116.2	-66.6	13.7
3rd	151.2	88.3	41.8	8.2	222.3	267.3	-60.1
4th	1030.4	-683.1	2.5	6.1	113.8	-13.6	-57.5
5th	289.9	-126	3.8	-2.4	66.5	54.4	-37
6th	18.7	-11.3	2.3	-4.9	-22.2	12.5	4.8
7th	16.9	15.7	-1.9	3.5	5.9	16.9	-32.4
8th	-1.2	-8.2	-0.1	0.4	-1.8	9.7	4.8

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
		Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.375	Blade 1, r/R=0.570	Blade 1, r/R=0.400	Blade 1, r/R=0.570	Blade 1, r/R=0.400
MEAN	-938	-226.4	210.8	473.3	437.7	299.9					
RMS	392.2	244	123.9	153.3	180.6	382.1					
1/2 P-P	620.1	378.9	221.3	309.6	379.7	749.8					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-421.9	121.6	-285.3	63.4	-162.7	0.8	-142.7	-34.8	-147.3	-48.5	-401.2
2nd	97.4	47.7	53	31.1	-3.9	11.4	-33	2.6	-40.6	-3.6	-155.6
3rd	205.5	-185.5	15.8	-97.5	2.7	-11.7	-72.3	54.6	-102.1	81.6	-239
4th	128	-1.3	70.9	-0.7	8.6	-8.5	-45.6	-10.6	-70.6	-11.7	-99
5th	-54.1	68.1	-20.8	27.6	24.2	-18.2	65.4	-58.3	75	-75.1	-3.2
6th	27.5	-10.3	10.7	-3.6	-12.2	1.9	-33.7	8.1	-38.7	11.4	25.1
7th	18.2	-5.9	3.5	-2.6	-17.7	-0.3	-34.9	1.1	-38	5.1	39.4
8th	-15.6	-7	0.2	1.6	20.5	13	34.4	22	31.2	19.5	-30.9
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-230.1	-27.3	-308.4	-6384.7	-Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb			
2nd	561.5	674.4	493.9	946.2	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.900			
3rd	1051.5	1284.4	1017.8	1734.6	Blade 1, r/R=0.144	Blade 1, r/R=0.144	Blade 1, r/R=0.144	Blade 1, r/R=0.144			
MEAN	-230.1	-27.3	-308.4	-6384.7	-2773.9	-2773.9	-2773.9	-2773.9	-405.8	-405.8	
RMS	561.5	674.4	493.9	946.2	969.3	969.3	969.3	969.3	48.5	48.5	
1/2 P-P	1051.5	1284.4	1017.8	1734.6	2114.3	2114.3	2114.3	2114.3	89.3	89.3	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-448.1	-96.5	-254.1	-41	12.8	6.5	-1142.3	627.7	127.3	224.3	0.5
2nd	-552.1	15.2	-774.4	17.4	-493.7	22.7	98.3	-9.8	179.8	-69.3	-43.1
3rd	-184.4	111.5	-251.1	116.3	-345.9	94.3	109.6	41.8	-277.9	-90.6	-39.3
4th	128.7	47	324.3	11.8	247.2	-5.5	-102.3	57.7	1120.2	-558.7	23.7
5th	-143.9	144.3	-117.7	195	78.6	125.1	99.5	-76.4	-227.7	143.1	-6.3
6th	60.2	-31.4	-0.6	-13.7	-12.5	9.6	-7.5	-5.6	-4.7	16.5	3.5
7th	21.1	-1.3	-32.1	-15.2	-135.9	-5.2	-3.4	23.5	2.6	-24.7	-1.1
8th	10.4	13.6	50.1	36.4	32.8	37.3	-41.3	103.6	40.9	-101.7	2

RUN/POINT		Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
34/33	MEAN	-1010.8	-4092.7	-924.6	-4587.9	-1672.4	-781.8
	RMS	337.5	872.2	335.3	1014.1	848.9	740
	1/2 P-P	568.7	1621	556	1765.4	1551.5	1503.8
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-76.5	-313.4	-487	-1083	315.7	-54.8	1284.6
2nd	-99.5	-47.5	-55.4	-1	90.2	73.7	-18.4
3rd	-204	-204.8	35.1	-117.6	-200.2	194.1	-100.4
4th	114.4	-5.5	-196	63	138.3	-1.6	-6.7
5th	-94.8	-51.2	80.3	90	50.4	-78.2	-77.4
6th	-20.6	7.4	18.7	-13.1	32.2	-10.1	-21.3
7th	-10.7	-27	-0.9	1.3	-17.3	6	-24.9
8th	-10.7	24.5	-21.4	94.2	-15.4	12.4	-27.6
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1	Pitch Link, lb Blade 1
34/33	MEAN	-1744.3	-391.9	0	-5911.5	-472.5	-51.6
	RMS	903.5	43	0	960.4	40.9	17.2
	1/2 P-P	1845.8	92.5	0	1745.4	81.1	32.8
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	115.4	-260.8	3.1	6	0	476.3	1238.7
2nd	135.2	-65.9	-36.4	-13.8	0	-74.4	22.2
3rd	210.8	99.1	37.6	12.8	0	-53.2	109.2
4th	990.1	-611.8	15	14.4	0	-76.9	46.7
5th	217.4	-219.6	2.5	-0.4	0	-78	-106.9
6th	19.6	-21.6	2.6	-6.2	0	18.4	3.4
7th	11.4	1	2.1	2.3	0	-25.4	17.2
8th	11.5	-40.2	1.3	1.5	0	-37	107.2

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
34/34		RMS	390	250.6	390.7	131.5	139.6	553.3	503.5	159.5	397	391	754.8
MEAN	-225.4	215.2	-305.4	83.5	-171.7	5.5	-149.8	-39.1	-154.4	-55.5	-434.6	-11	
RMS	390	250.6	413.6	239.2	11.6	-34.7	2.8	-42.4	-3.5	-167	-58		
1/2 P-P	610.1												
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-446.7	152.9	44.8	32.9	-7.2	11.6	-34.7	2.8	-42.4	-3.5	-167	-58	
2nd	84.7	51.7	-134.9	109	-70.5	2.9	-9.4	-67.9	40.2	-96.7	60.1	-225.7	11
3rd	194.8	-112.3	-4.7	63	-4.5	9.8	-11.3	-37.7	-12	-60.5	-12.6	-85.6	-11.
4th	112.3	-2.9	22.7	0.1	9.7	5	-6.4	10.4	-19.4	8.9	-24.6	-3.2	-0.
5th	22.6	-2.4	9.4	-0.6	-7.8	-1	-23.6	-0.6	-28.6	1.2	14.9	4.	
6th	4.6	-3.7	-0.9	-0.7	-8.7	2.8	-14.8	4.5	-16.4	6.1	18.4	-1.	
7th	11.7	12.1	6.7	0.2	-0.9	-19.2	-6.7	-31.3	-12.1	-27.4	3.5	36.	
8th													
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800	Flap Bending, in-lb Blade 1, r/R=0.900	Flap Bending, in-lb Blade 1, r/R=0.900	Chord Bending, in-lb Blade 1, r/R=0.144	Chord Bending, in-lb Blade 1, r/R=0.570	Torsion, in-lb Blade 1, r/R=0.400						
34/34													
MEAN	362.8	44.7	-353.6	-562.6	-2772.8	-2772.8	-421.1						
RMS	600.3	703.2	513.2	1439.1	1033	1033	45.9						
1/2 P-P	1042.4	1248.2	1061.2	2390.9	1992.5	1992.5	88.5						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-578.5	-78.7	-331.2	-40.7	-0.9	16.3	-1763.1	962.7	116.1	313.6	2.4	10.	
2nd	-571.2	-29.1	-861.4	20.8	-564.6	33.4	146.4	9.9	198.9	-66.7	-38.9	-12.	
3rd	-143.1	90	-165.2	58.6	-290.2	53.8	121.3	46.1	-264	-114.9	-32.1	-16.	
4th	99.3	47.2	295.3	31.4	263.2	-1.5	-126.6	97.6	1148.2	-725.9	27.7	12.	
5th	-11.2	41	-13	80.8	120	53.2	35.3	-2.7	-71.5	-5.1	-1	-7.	
6th	47.6	1	9.3	-20.9	-45.4	2.1	-1	5.4	0.1	-4.1	2.3	-4.	
7th	2.5	-3.6	-6.1	1.7	-74.4	4.4	-12.3	0.2	18.2	-5.4	-2.9	-0.2	
8th	4.3	-18.5	-25.4	-39.1	-8.9	-43.3	93.7	25.7	-97.2	-176	-0.2		

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
MEAN	-288.7	-3397.6	-196.5	-3872.3	-1055.6	-561.6	
RMS	319.7	1416.5	342.8	1511.6	1266.9	867.6	
1/2 P-P	528.7	2362.5	573.8	2419.6	2012.2	1917.8	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-97.8	-328.2	-804	-1803.5	354.3	-93	1917.3
2nd	-79.7	-40.1	-109.4	-12.9	85.5	63	142.1
3rd	-163	-191.2	43	-132.3	-215.2	163.5	-114.8
4th	109.2	-13.5	-184.2	73.3	114.8	-14.7	-21.9
5th	-40.7	-5.5	19.5	55.6	26.9	-5.2	-57.4
6th	-25.2	9.9	31.3	-10.3	18.4	1.2	-12.5
7th	1.7	-10.3	-21.3	-2.4	-3.2	-0.4	-32.5
8th	8.5	6.8	95.4	12.5	9.1	27.9	91.6
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Flap Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
MEAN	-1687.9	-405.3	-138.3	-5241.4	-491.2	-48.1	
RMS	920.9	41.8	338.6	1499.8	39.8	18.4	
1/2 P-P	1868.2	80.6	562.6	2364	81.6	32.3	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	229.8	-387	-0.2	-0.9	140.8	341.8	775.5
2nd	164.8	-90.5	-35.1	-15.1	-83.7	-37.4	-136.2
3rd	243.4	110.2	33	11.7	164.8	201.3	-53.7
4th	962.8	-641.6	18.1	17	114.4	-14	-42.9
5th	159.3	25.6	3.3	8.2	37.2	15.3	7.9
6th	19.7	0.8	0.4	-4.2	-21.8	10.5	11.2
7th	8.1	11.6	3.2	0.3	-3.4	10.7	-24.2
8th	-37.8	-13.5	0.9	-3.5	-0.7	-1.1	85.9

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
		Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.370	Blade 1, r/R=0.400	Blade 1, r/R=0.440	Blade 1, r/R=0.570	
MEAN	420.8	616.8	555.3	628.9	565.1	482.5					
RMS	353.3	227.8	122.6	145.4	167.3	419.5					
1/2 P-P	633.7	393.7	264.7	343.5	379.2	846.7					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-384.4	97.5	-269.6	51.5	-157.4	-9.3	-149.8	-46.3	-155.6	-62.4	
2nd	118.9	74.3	63.8	47.3	-3.1	15.4	-38.7	1.5	-49	-6	
3rd	206.6	-130.8	113.6	-67.9	0.1	-8.1	-78.2	42.1	-109.5	62.7	
4th	103	6.8	57	1.5	7.4	-10.5	-37.9	-16	-60.4	-19.4	
5th	-12.3	2.6	-3.5	0.3	7.2	-1.9	16.3	-3	17.7	-4.2	
6th	8.7	-5.2	3.1	-1.3	-5.3	2.1	-14.2	5.9	-15.3	7.4	
7th	13.8	-3.5	2.4	-1.4	-13.9	0.4	-26.7	0.9	-29.3	3.2	
8th	-6.1	10.2	7.3	4.7	23.8	-6	35.1	-13.4	27	-14.1	
MEAN	460.3	103.3	415.4	-5041.7	2798.7	-434.9					
RMS	665.7	756.9	510.7	1972.9	1039.5	46.8					
1/2 P-P	1168.4	1372.8	1002.4	3275.3	2108.7	103.6					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-670.8	-95.9	-418.1	-23.7	12.2	-2436.4	1311.1	82	432.6	2	
2nd	-615.7	-76	-933.4	-47.6	-596	-3.9	102.9	15.1	210.6	-85.1	
3rd	-117.5	98.2	-91.9	53.2	-250.5	41.1	138.1	48.5	-309.7	-156.1	
4th	86.5	49.3	255.7	70.9	247.8	30.2	-130.7	74.6	1149.3	-619.5	
5th	-31.1	3.9	-55.7	17.1	70.9	31.6	43.3	34.3	-100.1	-86.6	
6th	21.7	-3.3	15.3	-18.4	-46.5	-17.2	-11.8	-4.1	7.7	1.8	
7th	11.6	-11	-29.4	5.4	-83.7	0.6	28.5	-1.7	-26.5	-7.9	
8th	26.1	-1.1	42.1	-32.1	59.3	-20.5	107.8	171.8	-117.3	-40.7	

RUN/POINT		Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
		Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.174	Blade 3, r/R=0.325	
MEAN	364.8	-2984.1	473.7	-3496.6	-693.7	-432.6							
RMS	311.9	2026.4	318.1	2027.8	1688.6	1015.1							
1/2 P-P	571.3	3292	592.3	3227.6	2623.1	2089.3							
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-25.6	-283.1	-1270.1	-2544.1	289.7	-41.3	2560.9	-1248	2139.7	-1016.2	968.3	-666.4	
2nd	-103.2	-79.6	-99.7	-12.1	110.6	87.1	77.6	21.8	88.2	11.9	123.8	-48	
3rd	-175.9	-222.8	38.5	-161.9	-234.4	167.7	-149.4	-27.1	-101.6	2.7	118	121	
4th	104.5	6.4	-146.1	41.6	101.3	8.8	-22.6	4.7	116.2	-53.9	685.8	-349	
5th	8.5	-41.9	-28.6	51.9	18.5	18.5	-46.6	-57	-17.1	-28.8	78.8	95.1	
6th	-12.1	-1.2	8.5	-6.7	6.5	-0.6	-13	5.8	-8.7	2.4	-4.2	4.8	
7th	-1.3	-9.3	28.9	-20.9	-14.8	5.9	6.2	-12.2	7.3	-11.5	-0.1	-17.4	
8th	7.2	42.2	126.6	145.4	-3.8	25.7	126.1	161.5	104.6	153.2	42.4	81.8	
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Blade 4, r/R=0.400	Blade 4, r/R=0.144	Chord Bending, in-lb	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Torsion, in-lb	Pitch Link, lb	Pitch Link, lb	Pitch Link, lb	
		Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 4, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 1	
MEAN	-1685.7	-420.1	0	0	0	-4613	-511	-511	-42				
RMS	937.9	41.3	0	0	0	2074.8	39.3	39.3	19.4				
1/2 P-P	1885.2	76.8	0	0	0	3383.5	84.4	84.4	34.6				
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	343.4	-530.2	-1.2	-5	0	0	1175.3	2668.5	15.8	-11.6	-21.3	14.4	
2nd	158.2	-85.1	-34.9	-16.3	0	0	-100	-21.8	32.9	15.2	-4.4	-2.4	
3rd	273.2	155.6	28.7	18	0	0	-45.2	138.5	17.6	-15.2	-3.5	-2.7	
4th	942.6	-522	11.5	20.3	0	0	-32.6	31.4	20	16.6	4	2.5	
5th	143.9	140.4	-0.7	8.7	0	0	27.9	-46.4	-6.9	3	1	-0.3	
6th	10.6	-7.1	-2	-3.1	0	0	-2.7	9.1	1.1	1.7	0.1	-1	
7th	-8.5	4.3	1.4	3.3	0	0	-1.4	8.1	3.3	-2.5	0.1	-0.2	
8th	-52.6	-58.5	3.8	-1.5	0	0	110	171.6	2.5	-5.3	-0.4	1.1	

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
		Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.375	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570
MEAN		1103	1040.4	729.3	705.5	627.7	572.9				
RMS		505.6	327.4	167.5	164.2	181.5	446.1				
1/2 P-P		789.1	482.7	308.6	366.9	393.6	820.3				
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-640.5	20.9	-428.1	6.1	-224.4	-31.4	-180.1	-55.9	-178.4	-70.9	-500.1
2nd	114.5	86.2	61.5	54.2	-3.8	17	-39.5	0.3	-49.7	-8.2	-205.2
3rd	216.8	-151.3	120.5	-80	1.1	-11.9	-80.5	44.1	-113.5	67.8	-243.6
4th	82	4.4	46.4	0.2	7.8	-9.8	-29	-11.4	-47.3	-13.2	-65
5th	-36.4	14	-13	5.4	16.7	-3.1	43.1	-8.5	48.4	-12.8	-5
6th	8.2	-3.7	4.9	-2.4	1	-1.3	-4.6	-0.4	-6	0.5	1.8
7th	20.7	0.9	6.4	0	-12.5	-3.3	-28.2	-6.9	-33.1	-5.3	28.8
8th	10.5	1.2	9.5	-3.1	5.3	-11.1	2	-14.6	-3.9	-11.9	-5
RUN/POINT	Flap Bending, in-lb	Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb			
34/36	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570		
MEAN		555.9	148.9	-474.7	-4373.2	-2809.6	-440.1				
RMS		720.4	780.4	503.7	2275.8	982.7	41.1				
1/2 P-P		1281.3	1398.8	957.8	3625.5	2222.6	84.4				
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-766.5	-87.4	-481.1	-42.6	-21.5	1.6	-2396.9	2115.6	204.5	606.2	-1.2
2nd	-628.8	-68.4	-953.8	-12.9	-605.5	20.1	182.4	19.3	237.9	-106.6	-29.2
3rd	-109.3	102.8	-73.1	49.9	-251	61.2	150.2	66.6	-346.6	-139	-29.8
4th	67.6	32.5	203.7	41.3	209.5	-3.5	-92.4	47.2	918.3	-612.1	22.5
5th	-86.1	31.9	-105.8	49	32.1	24.9	47.4	37.7	-112.2	-74.9	-2.3
6th	12.9	1.1	13.3	-5.4	-33.4	12.2	-7.5	4.9	7	7.4	-1.3
7th	17.6	-6.1	-34.5	-11.8	-85.7	-3	12.4	7.4	-11.6	-4.3	-0.6
8th	10.1	-6.7	-3.2	-24.1	0.5	-35.6	169.9	-14.5	-166.2	22.4	-1.1

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
MEAN	1042	-2081.7	1174.1	-2662.1	22.7	-164.7
RMS	456.9	2313.8	462.3	2293.2	1920.5	1122.8
1/2 P-P	730.9	3624.4	746.2	3622.1	3030.8	2245.4
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	15.4	-546.1	-2017.2	-2548.3	557.8	11.8
2nd	-104.7	-92.1	-165.3	1.5	109	103.1
3rd	-187.4	-232.6	45.9	-171.7	-237.2	177.5
4th	81.4	11.7	-132.6	51.6	79.5	6.4
5th	-19.1	-28.4	-18.4	53.2	22.4	-23.5
6th	-6.1	-5.9	11.6	-12.8	4.3	0.3
7th	-6.1	-16.3	24.8	-6.2	-24.1	-1.8
8th	27.9	13.7	165.9	-44.6	14.4	11.8
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
MEAN	-1597	-425.6	0	-3992.2	-520.7	-33.4
RMS	976.8	35.4	0	2337.1	32.7	24.1
1/2 P-P	1899.7	68.5	0	3687.9	71.4	38.7
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	237.8	-781.9	0.2	-7.9	0	1950.7
2nd	198.1	-96.5	-27.3	-15.3	0	-17.5
3rd	305.8	126.4	27	15.4	0	-55.3
4th	785	-637.4	12.4	14.2	0	-29.6
5th	119	48.6	-1	3.4	0	20.6
6th	5.1	-15.2	-1.8	-2.3	0	-1.7
7th	-5.4	-9.2	1	3.3	0	-6.7
8th	-72.7	12.1	0	-1.9	0	167.1

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
34/37													
MEAN	1827.2		1490.8		912.8		787.5		693.7		663		
RMS	399.8		260.4		136.4		160.9		181.4		450.3		
1/2 P-P	660.3		406.7		257.4		343.1		377.5		845.9		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-453.5	124	-317.4	72.3	-177.4	-3.4	-164.3	-47.1	-167.1	-66.6	-517.4	-157.1	
2nd	44.8	66.4	20.4	41.6	-15.9	14.1	-35.3	3	-39.1	-3	-166.3	-5.9	
3rd	239	-151.6	133.7	-79.8	5.4	-13.6	-81.7	41.6	-116.4	64.7	-251.4	113.5	
4th	70	13.9	40.7	4.7	10.9	-11.1	-18.5	-17	-34.2	-20.3	-54	-15.9	
5th	-39.3	56.9	-14.4	22.9	22.4	-15.6	52.4	-49.5	57.4	-62.7	-7.7	-4	
6th	7.6	2.7	4.6	0.5	1.5	-4.6	-3.8	-8.2	-5.9	-9.5	-0.7	8.3	
7th	22.9	-3	4.8	-1	-19.4	0.2	-39.4	-0.7	-42	1.9	44.4	11.1	
8th	6.7	10.2	4.5	0.1	1.2	-15.5	-0.1	-25.1	-4.5	-21.5	-2.2	26.6	
RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.725		Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Chord Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400	
34/37													
MEAN	628.4		172.1		-534.9		-3548.8		-2787.5		-441.8		
RMS	739.3		760.3		506.3		2859.5		888.4		33.7		
1/2 P-P	1281.8		1433.5		1008.6		4406.7		1871.9		69.6		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-843.7	-110.9	-553.5	-57.9	-35.6	-2.2	-3485.6	2016.6	92.4	622.4	-10.3	13.2	
2nd	-553.8	-62.5	-867.9	-27.7	-598.8	6.6	261.1	40.1	222.8	-110.5	-11.3	-7.3	
3rd	-122.5	91	-100	48.7	-262.6	56.4	123.4	95.2	-371.4	-153.3	-30.7	-16.3	
4th	38	46.3	160.5	58.7	191.2	4.2	-84.4	41.6	800.5	-519.6	18.3	7.7	
5th	-101.1	124	-110.2	163.9	27.6	109.4	28.4	-29.6	-77.5	43	2.2	0.8	
6th	15.6	8	9.9	-0.7	-38.4	24	-14.2	32.4	5.2	-19.9	-1.1	1.2	
7th	14.4	-3.1	-46.9	-5.5	-101.1	-2.7	7.6	-10.1	-16.1	7.6	-0.2	-3.8	
8th	8.8	-13	-6.3	-33.5	-4.2	-41.3	51.9	-19.3	-57.1	20.1	-0.5	-1.4	

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
		Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325
MEAN	-3346	-1725.5	-411.3	210.1	213.1	-94.1					
RMS	352.5	220.9	112.5	88.7	92.3	135.3					
1/2 P-P	578.3	351.8	193.3	181.7	191.7	296.7					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-219.3	-417.1	-137.4	-265.2	-72.7	-137.4	-51.3	-87.5	-45.5	-83.5	-16.2
2nd	146	-30.4	84.7	-15.4	14.8	-5.1	-31.1	4.5	-47.4	8.1	-142.4
3rd	26.3	-18.7	14.7	-8.9	-2.3	1.5	-15.6	12.9	-19.4	17.1	-43
4th	17.1	3.2	10.1	2	1.5	0.7	-7.1	1	-10.2	0.7	-17.7
5th	-7.2	-43.6	-3.3	-16.6	-3	16.9	-2.9	48.6	-1.3	58.5	6.2
6th	9.4	-0.3	5.2	-0.7	-0.8	-0.7	-7.5	-0.7	-8.5	-0.8	-2.6
7th	-1.6	-2	1.7	-0.6	6.5	-0.1	7.8	0.9	5.9	1.4	-9.5
8th	7.5	-3.4	1.9	-0.5	-6.3	3	-13.8	5	-13.1	3.8	18.4
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb
18/8	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.400	
MEAN	-241.7	-348.9	-203.5	-8186.6	-2795.6	-350.9					
RMS	189.8	204.5	141.1	656	248.8	49.7					
1/2 P-P	411.2	456.7	309.2	1135.5	624.6	92.8					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	57.6	-100.6	95.3	-84.3	76.7	-34.9	355.8	838	38.1	243.9	37.7
2nd	-203.6	45.7	-203	56.9	-118.4	38.4	-47.4	61.6	42.2	-6.8	-19.5
3rd	-44.6	21.8	-50.4	22	-55.9	33.1	22.1	-10.7	-31.5	-24.3	-11.5
4th	3.7	0.3	20.7	-2.1	27.9	-7.6	-8	-8.5	121.9	-16.4	4.1
5th	8.1	-108.7	6	-126	12.5	-86.9	35.9	60.4	-53.4	-142.2	-3.3
6th	14.7	-2.4	8.3	-5.3	-7.4	-4.2	7.3	-14.7	-6.4	23	-2.7
7th	2.2	0.8	12.4	-0.1	8.7	0.7	-23.1	20	24.5	-14.5	-1.2
8th	-5.1	-0.9	-21.4	7.8	-17.6	8.4	11.6	7.6	-12.3	-5.7	0.4

RUN/POINT		Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
16/12		Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN		3398.9	299.9	3422.8	-496.9	2077.9	-4838.6	2242	-3039.1
RMS		477.9	6318.2	440.1	5649	4743.1	19.9	436.1	-40.4
1/2 P-P		927.6	9541.9	891	8474.6	7083.3	-147.5	12.9	134.9
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	529.4	34.9	-5390.6	-7083.2	110.7	384.9	5408.1	-5829.7	4600
2nd	200.2	-97.2	-627.8	-202.2	-291.7	154.2	688.7	13.3	576.5
3rd	-160.7	-244.9	147.3	-277.9	-236.9	160.5	-210.7	-27.1	-70.6
4th	94.3	24.3	-50.7	92.6	74.2	22.3	-21.7	132.6	743.8
5th	-84.6	-122.4	36.7	74.7	138.5	-62.5	-90.2	-10.2	-23.6
6th	-21.1	1.9	6	-12.6	18.5	1.4	8.9	0.1	15.5
7th	6	-29.6	8.2	-5.1	-27.3	-7.9	-3.3	5.8	-3.4
8th	8.5	10.4	77.1	9.2	4.1	13.4	73.4	8.2	61
RUN/POINT		Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Pitch Link, lb
16/12		Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1	Blade 1
MEAN		-1075.7	-438.2	3467.2	-1661.1	-539.3	-37.3		
RMS		1948.9	90.5	432.4	6176.4	84.5	37.9		
1/2 P-P		3707.8	282.6	874.1	9380.3	339.6	84.8		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	989.1	-2172.8	-63.5	-3.8	-444.6	-2.1	5310.1	15.7	-77.4
2nd	338.9	-84.7	75.3	20	226.7	-126.8	-681.9	-155.2	-18.7
3rd	334.4	234.4	-11.3	40	144.3	232.7	-158.1	198.7	26.8
4th	1025.2	-406.9	42.4	-22.7	96.1	19.6	-58.9	37.8	9.7
5th	390.6	-107.1	16.1	19.1	70.1	101.8	-23.1	-59.3	-11.5
6th	40.2	-33.7	-13.7	3.3	-19.1	0.8	33.9	-23.1	9.2
7th	-0.2	25.1	1	-6.4	-7	26.6	9.3	42.9	-2.6
8th	-39.8	-20.6	4.8	4	4	17.1	81.8	21	-1.1

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
MEAN	3207.7	2336.1	1234.3	925.5	778.5	656.9							
RMS	369.7	233.4	110.9	170.2	196.9	416.5							
1/2 P-P	874.8	536.2	272.8	419.4	466	815.3							
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE		
1st	-264.5	70.2	-200.1	43.1	-96.8	-39.3	-123.4	-90.7	-128.6	-116.3	-452.7		
2nd	-183.3	275.6	-120.6	163.9	-62.9	52.6	-47.1	-1.2	-37	-19.9	-85.2		
3rd	208.2	-49.4	113.8	-22.9	-4	-5.7	-80.7	14	-108	23.1	-218.5		
4th	85.9	27.2	47.6	13.4	5.9	-11.3	-30.9	-26	-45.4	-29.8	-61.4		
5th	-92.3	55.9	-36.2	23	41.3	-10.9	111.8	-41.8	132.5	-55	-13.9		
6th	13.1	1.6	4.4	2	-7.3	1.2	-16.1	0.6	-16.1	1.6	11.7		
7th	27.6	11.3	6.9	3.8	-19.8	-11	-40.7	-23.4	-44	-20.4	37.1		
8th	-4.3	8.6	6.1	2.9	22.2	-5	33.1	-12.5	28.2	-14.8	-35.3		
MEAN	394.7	59.9	-672.1	-1592.4	-2458.7	-484.2							
RMS	679.8	766.5	587.5	5087.6	1539	128.7							
1/2 P-P	1276.4	1604.1	1280.3	8269.7	3320	402.2							
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE		
1st	-681.1	-142.4	-530.8	-108.1	-86	-49.5	-5592.8	4439.1	-404.6	1221.4	102.2		
2nd	-532.1	-227.3	-811.3	-170	-708.8	-52.9	645.2	-135.5	337	-44.5	42.9		
3rd	-113.1	38.4	-146.8	-29.6	-228	-29.8	207	106.8	-294.2	-278.8	-48.3		
4th	53.3	50	214.8	93	214.8	28.4	-81.9	190.2	1157	-1004.1	-32.2		
5th	-226.6	105.7	-250.4	161.6	-60.3	149.1	67.6	-24.9	-228.2	15.6	21.8		
6th	27.9	5.6	16.7	-4.9	-7.3	36.1	-30.7	17.6	49.3	-4.1	-9.1		
7th	22.4	3.5	-39.5	-16.2	-122.8	-57.1	24.1	38.9	1.5	-41.1	-1		
8th	25.1	0.6	38.2	-16.8	25.5	-33.6	78.1	16.3	-80	-21.7	4.3		

RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	1748.1	-1518.1	1872.9	-2311.2	462.8	262.5		
RMS	344	4312.8	327.4	4334.9	3626.9	2109		
1/2 P-P	651.4	6475.3	619.8	6449.4	5424.7	3750.8		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	327	34.3	-3167	-5188.4	-25.6	303.5	5049.2	-3439.1
2nd	60.7	-110.7	-354.4	-150.9	-104.6	95.7	383.9	197.1
3rd	-132.1	-276.6	114.9	-197.1	-271.6	120.3	-167.3	-111.8
4th	94.8	25.7	-96.2	73.1	83.8	34.1	-16.5	11
5th	-56.7	-60	-8.1	76.3	46.8	-32.4	-51.4	20.4
6th	-25.5	-1	18.2	-24.3	18.5	1.6	11.3	27.7
7th	-0.1	-23	-17.3	4.8	-19.5	-3.7	-34.6	9.8
8th	13	7.1	75.8	-17.5	5.1	13.2	71.7	-12.1
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Pitch Link, lb
	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1
MEAN	-1395.7	-435.7	1905.5	-3248.9	-3248.9	-3248.9	-533.9	-56.5
RMS	1532.9	39.1	307.3	4292.2	4292.2	4292.2	19.1	19.1
1/2 P-P	2936.3	88.2	580.7	6426.6	6426.6	6426.6	38.6	38.6
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	1020.3	-1385.9	-31.3	16.3	-257.2	-32.4	3120.2	5185.9
2nd	248.2	-25.4	1.9	6.6	67.1	-109.3	-340.9	1
3rd	276.9	196.3	22.5	8.8	121.6	271.7	-123.4	123.6
4th	1072	-603	24.6	21.3	96.1	26.4	-8.6	-2
5th	167.1	-48.5	-3.7	3.7	47.5	48.6	23.4	-76.7
6th	0.8	-14.2	1	-4.4	-20.9	-4.3	16.8	-20.1
7th	11.2	-11.2	2.5	-0.8	-0.6	22.8	-16	17.1
8th	-26.7	0.5	-1.9	0.5	8.1	12.3	70.7	5.9

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
MEAN	317.7	-3034.8	400	-3360.4	-496.9	-58.6
RMS	256.6	2559.6	252.6	2584.2	2158.3	1307.9
1/2 P-P	476.6	3925.2	468	3967.3	3255.3	2485
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	180.1	-47.4	-1768.7	-3139.5	50.2	157.8
2nd	-5.3	-87.6	-191.1	-79.5	-15.8	76.3
3rd	-144.4	-242.9	50.7	-159.5	-255.6	142.6
4th	74.3	25.8	-108.5	33.8	64.8	35.4
5th	-17.4	-39.4	-32.8	56.4	43.9	-6.1
6th	-17.9	1.8	17.9	4.9	11.4	-1
7th	6	-16.7	14.9	-22.4	-13.6	-3.8
8th	9.2	1.4	104.8	11.9	6.8	8.8
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
MEAN	-1463.8	-427.2	492.2	-4679.6	-515.3	-76.1
RMS	1070.8	39.6	242.9	2550.9	38.9	12.5
1/2 P-P	2126.6	94.1	442	3857.8	83.2	26.1
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	601.6	-808.9	-24.8	-115.1	88.3	1717.5
2nd	156.5	-32.4	-20.6	-6.5	-86.6	-198.4
3rd	205.7	172.9	27.8	13	138.5	246.5
4th	914.9	-540.1	8.4	14.9	74.9	31.1
5th	181.3	69	-0.2	0.5	13	28.7
6th	0.4	-2.3	0.8	-3.9	-17.6	-3.3
7th	-16.5	-2.5	2	-0.5	-2.3	15.5
8th	-35	-3.1	-1.6	-0.2	21	15

RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.144	Flap Bending, in-lb Blade 1, r/R=0.167	Flap Bending, in-lb Blade 1, r/R=0.215	Flap Bending, in-lb Blade 1, r/R=0.280	Flap Bending, in-lb Blade 1, r/R=0.325	Flap Bending, in-lb Blade 1, r/R=0.570
MEAN	439.3	614	544.4	615	532.4	323.7
RMS	250.5	159	94	138.3	164.6	368.3
1/2 P-P	476.2	313.6	203.7	306.6	358.5	676.9
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-194	-124.4	-145.1	-89.6	-86.3	-104.9
2nd	-7.7	64	-10.9	39.5	-25.8	12.4
3rd	222.2	-109.2	120.6	-56.3	-4.1	-8.7
4th	64.8	23.1	34.9	11.2	4.4	-5.3
5th	-28.3	1.4	-12	0.9	8.9	2.2
6th	16.1	-0.8	6.8	1.1	-4.7	1.3
7th	15.8	1.1	1.8	-0.4	-17.1	-4.8
8th	7.6	8.8	6.7	1.6	6.1	-9.7
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800	Flap Bending, in-lb Blade 1, r/R=0.900	Chord Bending, in-lb Blade 1, r/R=0.144	Chord Bending, in-lb Blade 1, r/R=0.570	Torsion, in-lb Blade 1, r/R=0.400
MEAN	179.4	-113.1	-464	-5116.8	-2752	-438.2
RMS	535.1	603.6	503.6	2496.5	851.2	38
1/2 P-P	985.1	1151	966.5	3838.2	1720.7	86.6
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-540.7	-423.8	-131.1	-54.8	-3019.3	1797
2nd	-429.7	-79	-671.8	-58.6	-619.3	-21.2
3rd	-195.7	96.5	-172.9	60.9	-218.1	70.2
4th	37	31.1	167.9	65.1	206.8	18.7
5th	-50.7	-1.2	-68.9	10.5	37.7	19
6th	28.3	1.6	20.5	-4.7	-23.4	17.6
7th	13.7	3	-36.7	-3.9	-96.2	-19.7
8th	10.4	-6.2	-7	-31.6	-18.1	-37.5

RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	-390.9	-3675.6	-321.3	-3985.8	-1064.2	-1064.2	-1064.2	-1064.2
RMS	253.9	1798.1	247.6	1878.1	1570.5	1570.5	1570.5	1570.5
1/2 P-P	495.7	2857.6	482.3	2953.9	2403.6	2403.6	2403.6	2403.6
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	148.1	-118.1	-1252.9	-2191.1	107.3	122	2266.7	-1354
2nd	-18	-66.8	-166.6	-56.8	9	59	153.1	76.3
3rd	-134.2	-246.4	43.2	-118	-261.5	124.1	-105.3	-37.1
4th	68.1	24.1	-112.6	30.6	61	31.3	-40.7	33.8
5th	-23.5	-49.6	-10.7	69.9	54.4	-12.9	-87.4	-2.2
6th	-14.3	-1.7	22.3	8	5.8	3	-4.1	6.3
7th	6.2	-15.6	-19.2	-16.7	-11.1	-3.6	-17.4	-11.5
8th	10.9	7.4	92.2	26.2	0.7	10.8	93.2	20.1
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Pitch Link, lb
16/9	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1
MEAN	-1525	-414.7	-205.5	-5296	-497.2	-497.2	-497.2	-497.2
RMS	905.9	42.1	252.2	1761.3	38.8	38.8	38.8	38.8
1/2 P-P	1830.9	88.9	469	2798.9	82.5	82.5	82.5	82.5
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	432.4	-603.8	-22.1	34.5	-77.7	167.7	1177.4	2176.3
2nd	142.1	-40.1	-25.6	-9.1	-21.5	-63.4	-183	-27
3rd	151.4	144.1	26.9	17.3	125.1	253.8	-46.4	105.2
4th	872.7	-442.2	2	7.7	66.1	27.1	-20.4	27.3
5th	231	7.5	2.9	0.3	21.6	38.8	33.6	-65.9
6th	-0.8	-5.2	1	-2	-7.9	-4.4	-7.2	8.5
7th	5.7	3.2	0.7	0.6	-4.6	14.1	-14.8	-1.6
8th	-28.2	-6	-0.2	-0.6	13.5	18	84.3	27.3

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.370	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.400	Blade 1, r/R=0.400	
MEAN	-254.1	184.3	369.3	536.8	469.6	-107	-298	-199.9	-231		
RMS	284.3	180.2	96.7	133.3	158	0	-129.5	-35.5	335.9		
1/2 P-P	513.4	323.5	190.2	285.1	332.3	-46.9	42.5	-265.1	626.2		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-285.1	-81.6	-197	-66	-105.5	-73.1	-105.3	-92.8	-110.9	-199.9	
2nd	8.4	45	0.6	28.5	-20.4	9.4	-40.1	2.4	-124.4	-35.5	
3rd	233.8	-99.1	128.3	-50.2	1.4	-9	-89.7	26.2	-32.2	69	
4th	62.1	23.3	34.3	12.1	6	-3.4	-21	-14	-17.3	-47.4	
5th	-37.9	5.8	-15.8	2.6	13	0.8	39.6	0.1	48	-25.7	
6th	11.3	2.8	5.5	3.1	-1.3	1.8	-8.3	0.7	-9.9	-6.5	
7th	12.1	1.6	1.8	-1.4	-11.4	-7	-22.9	-11.5	-25.7	-2.4	
8th	11.1	12.9	6.7	4	1.8	-9.9	-3.6	-22.1	-6.9	18.9	
								-22.7	0.6	27.6	
RUN/POINT	Flap Bending, in-lb	Flap Bending, in-lb	Flap Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Torsion, in-lb	
16/9	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.400	Blade 1, r/R=0.400	
MEAN	93.4	-160.3	-407.2	-5782.7	-2755.4	-425.5					
RMS	471.4	528.7	442.4	1727.9	731.6	39.7					
1/2 P-P	898.2	1033.7	844.7	2725.5	1614.6	86.3					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-456.2	-186.1	-353.1	-130.5	-36.3	-2075.2	1252	-105.7	425.4	21.3	
2nd	-376.6	-43.6	-584.2	-42.8	-543.5	-20.8	197.6	70.8	180.4	-21.1	
3rd	-195.7	96.5	-167.1	79.5	-195.1	64	114	43.5	-58.3	-9.3	
4th	32.2	30.7	142.9	64.1	175.3	37.8	-55.2	12.1	-157.7	-21.8	
5th	-73.3	13.6	-93	25.9	9.6	42.6	68.5	19.3	-290.9	7.1	
6th	25.4	4.7	25.2	5.2	1.3	11.6	4.6	2.5	-55.1	.9.9	
7th	13.6	4	-22.9	-11.4	-74.7	-34.2	-17.2	-5.9	-1.1	-0.4	
8th	9.7	-6.6	-16.1	-34.5	-38.8	-37.5	89.2	34.8	2.2	-0.6	
							-86.4	-33.2	0.4	-0.1	

RUN/POINT		Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
		Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.174	Blade 3, r/R=0.325	
MEAN	-1020.9		-4232		-965.2		-4554.5		-1576		-461
RMS	279.8		1363.3		267.5		1446.7		1206.7		832.7
1/2 P-P	538.3		2262.8		504.3		2348.2		1917.9		1759.9
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	219.5	-95.6	-1070	-1581.7	69.7	189.8	1668.9	-1156	1406.1	-944.3	706.2
2nd	-47.6	-58.8	-107.6	-42.8	41.7	52.5	94.7	57.7	89.3	48.5	123.2
3rd	-145.5	-255	42.9	-92.4	-266.8	137.3	-79.8	-48.4	-64.1	-14.6	39.2
4th	60.8	25.3	-119.5	29.2	56.8	31.7	-39.4	37.6	77.4	-22.7	562.4
5th	6	-42.5	-41.7	74.3	48.4	14.9	-105.7	-35	-49.7	-18.6	133.6
6th	-16.4	-0.4	18.7	9.3	11	0.9	-8.8	11.5	-5.4	5.7	-9.4
7th	7.4	-13.1	9.1	-12.4	-11.3	-3.8	20.5	-6.9	14.8	-5.9	-7.9
8th	7.9	2.7	75.2	10.7	5.2	5.2	82.7	-4.2	72.9	3.7	43.7
RUN/POINT		Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
		Blade 3, r/R=0.450	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Pitch Link, lb	Pitch Link, lb
MEAN	-1582.8		-400.8		-825.5		-5843.8		-477.8		-86.5
RMS	804.9		45.4		269.6		1311.3		40		9.3
1/2 P-P	1614		94.8		493.7		2141.4		86.3		20.2
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	323.1	-513.6	-22.4	41.5	-149.8	153.1	1011.2	1535.1	-24	-29.3	-9.1
2nd	121.8	-34.6	-28.5	-8.2	-52.8	-56.1	-124.9	-16.4	27.6	11.7	-5.6
3rd	131.3	117.7	25.2	17	134.4	261	-46.9	83.6	20.6	-17.2	-4.3
4th	775.5	-451.5	-1.7	5.7	60.3	29.2	-16.9	29	2.5	8.9	1
5th	235.2	89.6	4.6	1.8	-9.2	34.5	65.4	-64.3	-3	4	-0.5
6th	3.2	-7	0.9	-1.9	-15.8	-3.7	-6.2	2.7	-1.4	1.7	0.4
7th	-12.9	2	0.6	0.5	-3.9	12.6	17.5	-7.6	0.4	-0.5	0.5
8th	-22.3	3.6	-0.1	0.4	17.8	19.6	78.1	8.4	-0.5	-0.6	0.1

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.375	
16/8													
MEAN	-875.4		-202.1		211.9		468.5		414.8		153.8		
RMS	292.1		183.1		96.7		128.8		152.7		310.6		
1/2 P.P	536.7		339.4		193.2		292.1		335		609.1		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-264.8	-142.4	-180.4	-102.9	-98.4	-84.7	-96.9	-91.4	-101.2	-102.2	-246.2	-183.6	
2nd	44.2	38.4	22.1	24	-12.4	7.4	-40	2.6	-49	0.8	-128.6	-30	
3rd	241.7	-109.4	133.7	-56.1	4	-9.8	-88.9	29.3	-124.4	46.2	-268.1	77.8	
4th	59	25	33.4	13.4	6	-2.5	-20.5	-12.9	-30.7	-16.1	-41.2	-25.7	
5th	-25.5	-18.6	-10.9	-7.3	5.6	8.3	20.5	24.6	26.4	28.5	2.1	-5.8	
6th	18.4	3.7	8.5	3.3	-3.7	1.4	-15.7	0	-18.4	-0.9	5.6	1.6	
7th	13.2	1.8	3.5	-0.3	-10.1	-4.6	-22.1	-8.3	-24.4	-6.7	19.5	15.3	
8th	7.2	14.5	5.4	3.8	3.6	-12.6	0.1	-26.4	-2.1	-27.4	-10.1	31.7	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-367.8	-181.9	-285	-129	-23.7	-33.6	-1482.5	1033.6	-77	356.4	21.5	-27.5	
2nd	-331.1	-21	-501.4	-26.6	-469	-13.2	132.3	54.7	154.2	-48.7	-31.3	-8.6	
3rd	-205.8	101.3	-175.5	92.1	-191.6	68.4	90.8	46.1	-175.6	-123.8	-26.1	-22	
4th	37.2	30	137	60.7	170.7	41.6	-54.8	5.1	696.9	-272.5	3.2	8.2	
5th	-34	-42.3	-42.2	-44.5	42.4	-5.2	71.9	47.8	-138.4	-116.4	-4.2	-2.9	
6th	35.1	5.7	26.8	5.2	-4.1	5.4	-11.8	-5.3	5.9	11.1	2.5	-1.3	
7th	10.8	6.4	-19.7	-8	-67.5	-32.1	8.9	-9.7	0.8	17.9	0	-0.5	
8th	6.7	-7.2	-8.6	-40.8	-23.3	-44.8	79	21.9	-72.2	-20.1	0.3	0	

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb	
	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.174	Blade 3, r/R=0.174	Blade 3, r/R=0.174	Blade 3, r/R=0.325	Blade 3, r/R=0.325
MEAN	-2355.8		-5313.5		-2325.3		-5654.1		-2558.6		-828.5	
RMS	385.9		866.8		392		917.4		750.2		556.1	
1/2 P-P	752.5		1459		788		1544.3		1272.4		1135.4	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	331.8	325	-533.4	-1082.5	-377.2	285.9	1158.9	-538.3	956	-424.9	550.5	-338.6
2nd	-114.7	-12.7	39.3	-63.8	112.7	6.2	-70.3	89.3	-49.3	72	25.4	19.8
3rd	-131.1	-210.6	27.6	-48.9	-217	118.5	-36	-27.9	-30.6	-3.8	27.4	61.5
4th	43.4	25.7	-85.5	26.4	49.7	30.4	-8.8	26.7	62.9	-10.6	370.2	-153.1
5th	60.1	-13.3	-77.2	35.1	14.6	68.6	-47.8	-88.6	-21.3	-42.1	46.1	156.5
6th	-16.7	-0.5	3.9	11.5	18.2	1.5	-4	3.2	-1.1	2.3	-8.6	8.3
7th	3.8	-4.4	18.3	9.8	-5.4	-3.7	34	11.9	24.4	9.1	-9.5	-7.7
8th	8.8	-14.4	3.7	-43.3	14.7	-5.9	12.5	-54.9	12.7	-44.3	8.9	-32.3
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Chord Bending, in-lb	Blade 4, r/R=0.144	Flap Bending, in-lb	Blade 4, r/R=0.400	Torsion, in-lb	Pitch Link, lb	Pitch Link, lb
16/7	Blade 3, r/R=0.450	Blade 3, r/R=0.450	Blade 3, r/R=0.400			-2130.8	-6907.8	-6907.8	-431.8	-894		
MEAN	-1701.1		-369.8			332.6	796.5	1400.3	42.3	6		
RMS	542		50.7			665.6			87.7	13.5		
1/2 P-P	1163.2		100.4									
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	309.2	-274.4	-26.1	51.9	-268.2	-253.1	475.5	1002.1	-35.9	-28.1	2.5	1.9
2nd	53.2	-9.2	-30	-7.3	-130.1	-9.4	55.1	-46.3	27.7	9.2	-5.2	-1.3
3rd	66.8	74.7	22.2	11	117.4	214.8	-30.2	39.9	14.3	-16.3	-4.4	-0.2
4th	501.1	-264.9	-2.6	9.2	49.1	26.8	-25.7	-1.1	-0.2	8.5	0.3	0.9
5th	100.9	244.9	5.3	6.1	-62.9	13.1	98.5	-26.3	-6.3	5.8	-1.1	-0.3
6th	1.8	-0.6	3.1	-1.8	-21.2	-4.9	8.5	4.1	-3.2	1.1	0.4	-0.1
7th	-22.2	-8.3	-0.7	-0.6	-2.1	3.6	24.6	1	-0.5	0.4	0.1	1.1
8th	-4.1	21.9	-1.3	1.8	13.6	-6.2	15.7	-36.8	-1.6	1.3	0.1	-0.1

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
		Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325
MEAN	-2194.9	-1018.9	-120.8	322.3	298.8	-6.6					
RMS	276.1	162.9	74.2	105.5	130.1	232.2					
1/2 P-P	524	304.9	134.3	236.6	280.9	491.4					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	158.9	-232.7	85.5	-154.7	15.7	-96.8	-37.4	-82.7	-49	-86.7	-112
2nd	127	-11.4	72.8	-4.6	7.5	-2.6	-36.3	3	-50.4	5	-142.5
3rd	198.7	-97.9	111	-49.8	5.1	-7.4	-70.9	28.2	-99.5	43.6	-136.7
4th	43.6	23.3	24.1	13	3.7	-1.3	-16.9	-10.7	-24.9	-13	-221.8
5th	5.7	-64.3	2.1	-25.1	-7.1	22.2	-16	67	-16.2	82.3	72.9
6th	18.1	4.7	7.8	3.1	-5.2	0.6	-17.8	-1.7	-20.3	-1.9	-19.8
7th	7	2.4	3	2.3	-1.5	1.8	-6.3	0.3	-8.7	0.9	-1.2
8th	5.5	-7.1	2.9	-2.8	-2.4	4.2	-7	8.1	-6.6	7	2.8
RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
		Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.400	Blade 1, r/R=0.400
MEAN	-158.2	-310	-268.8	-7540.2	-2795.2	-377					
RMS	294.9	324.4	276.3	779.8	500.1	46.7					
1/2 P-P	623.1	713.1	590.3	1364.8	1103.8	95.8					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-131.9	-148	-95.7	-121.1	9.5	-32	-1000.6	409.3	-144.8	180.9	26.5
2nd	-249.6	23.7	-319	25.1	-280.6	6.4	-59.9	80.1	83.3	-30.4	-38.2
3rd	-184.2	92.6	-162.4	96.9	-156.8	73.1	43.6	29	-100.2	-67.8	-6.2
4th	36.2	25	97.2	35.5	125.1	33	-66.2	-9.3	585.8	-107	-22.7
5th	46.8	-151.3	57.3	-176.1	90	-108.1	15.6	91.4	-16.4	-212.6	-16
6th	36.7	3.8	21.6	-2.2	-9.7	-10.1	-15.4	-19.4	17.7	24.4	-8.1
7th	6.2	5.1	-4.2	1.2	-35.8	-9	11.5	-0.8	-5.2	3.4	-1
8th	-2.4	1.5	-15.5	12.5	-20	13.5	10.1	-33	5.2	0.9	0.3

RUN/POINT		Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
		Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	-3716.3		-6140.8		-3701		-6486.7		-3312		-1105.4
RMS	256.3		294.3		284.9		325.2		260.8		227.6
1/2 P-P	530		699.7		556.9		811.2		615.7		540.6
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-74	191.5	205.4	266.7	-234.5	-111.3	-255.1	242.9	-228.2	188.7	-99.6
2nd	-257.4	5.8	159.7	13.1	267.7	-7.8	-198.2	13.2	-147.4	4.7	-44
3rd	-86.9	-81.5	12.2	4	-91.3	78.1	2.5	-13.8	2.1	0	15.5
4th	31.1	3.3	-45.8	-10.2	32.4	6	-16.2	21.3	24.6	-5.8	197.4
5th	69.4	-17	-83.4	25.7	29.3	73.4	-61.2	-107.8	-30.4	-57.5	57.9
6th	-16.5	9.9	3.5	-12.2	17.2	-0.8	-13.1	8.6	-6.1	6.5	1.6
7th	6	3.5	5	19.6	3.3	-3.3	26	31.8	15.7	25.8	-4.1
8th	2	-43.6	-35.9	-74.2	13.4	-24.6	-32.3	-84.4	-26.5	-73.5	-15.2
RUN/POINT		Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
16/ 6		Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 4, r/R=0.400	Pitch Link, lb	Pitch Link, lb
MEAN	-1805.4		-334		-3456.8		-7112.1		-382.7		-87.7
RMS	318.9		48.8		256.4		404.2		41.8		7.8
1/2 P-P	724.2		82.4		527.8		947.4		73		17.5
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-47.6	9.4	-27.1	57.5	130.3	-108.8	-262.4	-421.1	-44.9	-30.2	-4.2
2nd	3.6	-9	-21.9	-7	-285.9	7.2	198.3	10.1	18.2	7.8	-0.9
3rd	25.9	32.5	10.5	-0.3	72.7	86.2	-8.8	7.4	3.4	-8.1	-4.7
4th	271.9	-169.8	-4.7	-3.4	35.3	9.8	-15.3	29.6	-3.6	-1.4	0.6
5th	127.1	250.3	3.2	0.1	-65.5	30	104.7	-20.3	-1.6	5	-2.6
6th	19.3	-17	1.9	-0.7	-16.3	-1.3	19.6	11.1	-1.9	-0.3	-0.1
7th	-17.5	-19	-0.1	1.5	-5.8	-3.2	17.9	31.8	-0.2	0.2	0.2
8th	7.6	34.3	-2.3	3.3	0.5	-30.1	-24.7	-73	-1.9	3.5	0.1

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
MEAN	-3527.3		-1842.4		-456.1		186.4		193.7		-128.2		
RMS	242		136.1		44.8		81.8		99.5		169.1		
1/2 P-P	492.6		265.5		124.9		203.5		244.3		340.2		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	20.9	152.1	8.2	81	-10.2	9.3	-23.2	-31.4	-23.4	-43.4	27	-73.6	
2nd	274.3	-12.7	160.7	-3	40.3	-2	-33	1.8	-57.8	4	-181.8	-5.9	
3rd	83.3	-62.7	47.4	-33	2.8	-4.1	-29.3	20.6	-41.3	30.8	-99.6	56	
4th	30	10.3	16.5	6.5	1.4	1.3	-14	-0.6	-20	-1.1	-19.3	-5.6	
5th	-8.4	-67.6	-2.5	-27.2	-1.9	22.2	-1	68.3	1.2	83.9	4	-2.4	
6th	14.3	-5.4	6.3	-2.6	-4.6	1.2	-15.8	4.8	-18.1	6	14.3	-0.6	
7th	-1.9	2.2	0.6	-0.2	3.1	-4	3.3	-6.5	1.9	-5.4	-4.9	7.5	
8th	7.2	-28.5	0.9	-5	-10.4	25.6	-18.7	46.9	-15.6	44.5	37.1	-48.2	
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725		Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Flap Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400		
MEAN	-277.8		-376.6		-195.1		-8432.4		-2854.2		-336.5		
RMS	241.2		257.6		173.3		401		286.8		42.8		
1/2 P-P	516.5		568.1		393.1		922.1		668.4		78.2		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	120.7	-78.8	149	-68.1	87.4	-30.3	379	-314.5	18.3	2.4	28.7	-45	
2nd	-226.9	31.5	-201.2	43.4	-79.9	33.6	-198.9	1.7	25.3	-19.4	-21.7	-5.9	
3rd	-107.9	58.2	-110.5	54.9	-97.4	45.9	2.7	12.7	-37.9	-16.3	-14.8	-3.3	
4th	25.7	1.1	43.6	-1.5	38.9	-4.3	-24	-4.4	266.4	-83.1	2.1	-1.6	
5th	12.7	-158.5	19.3	-191.4	28.6	-136.4	34	107.5	-56.1	-224.6	-4.8	-3.1	
6th	25.7	-9.9	13.2	-5.3	-3	1	-0.2	-20.5	2.8	29.4	1.8	-1.6	
7th	-0.7	-0.3	-3.9	-8.2	-11.5	-6.3	3.1	22.3	2.2	-11.6	-0.1	-1.5	
8th	-11	18.3	-27.6	69.8	-28.6	69.4	-32.1	-71.6	33	66.6	-1.1	2.5	

RUN/POINT		Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb
		Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.174				
MEAN	3402.7	-77	3536.4	-825.2	1807.2	890.3			
RMS	374.8	5400	419.1	5388.5	4524	2598.9			
1/2 P-P	771.6	7931.8	819.9	7990.5	6796.4	4731.2			
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-172	-227.9	-3450	-6777.2	303.4	-150.8	6522.3	-3872.2	5506.6
2nd	123.3	-92.4	-519.3	-91	-165.9	113.2	643.1	60.8	561.8
3rd	-208.3	-302.6	117.5	-305.8	-323.3	235.6	-277	-86.1	-187.3
4th	138.7	13.4	-184.8	159	130.3	19.2	-18.2	28.8	191.4
5th	-108.1	-79.5	59.7	104.1	80.2	-94.4	-68.1	45	-19.7
6th	-30.8	6.8	35.4	-25.1	25.9	-8.8	-23	8.8	-19.1
7th	0	-33	37.8	-11.7	-31	-3	-13.3	-8.7	-8.4
8th	-6	3.6	0.7	10.4	1.4	13.5	3.5	21.8	1.7
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Torsion, in-lb	Pitch Link, lb
		Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1	Blade 1
MEAN	-964.6	-412.2	0	0	-1930.7	-525.6	-24.6		
RMS	1957.8	52.5	0	0	5503.8	57.6	40.6		
1/2 P-P	3910.9	102.2	0	0	8158.5	121	63.1		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	1258.5	-1562.7	-28.2	7.1	0	0	3349.1	6992.6	4.5
2nd	403.8	-124.3	37	22.6	0	0	-577.9	90.1	-30.4
3rd	490	287.1	32.3	-12.2	0	0	-140.8	228.3	-10.7
4th	1408.4	-1012.1	30	21.2	0	0	-57.9	105.7	34.1
5th	285.4	-168.1	-7.1	1	0	0	-61.1	-112.4	2.7
6th	38.2	-22.4	-2.8	-6.4	0	0	28.4	-13.3	5.6
7th	0	-1.3	2	1.4	0	0	-12.4	34.1	4.3
8th	3.1	-13.1	0.1	3.6	0	0	12.7	24.8	1.4

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb							
40/12		Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325
MEAN	3387.7	2450.5	1288.8	0	0	799.5	696.8	228.9	228.9	511	511
RMS	489.8	311.6	135.8	0	0	228.9	958.6	473.6	473.6	958.6	958.6
1/2 P-P	937.8	582.3	260	0	0						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-466.7	260.8	-330.1	158.3	-159.1	3.8	0	0	-166.6	-112.5	-542
2nd	-165	117.1	-105.3	68.4	-60.8	26.3	0	0	-38.6	-0.4	-240.2
3rd	295.8	-190.1	163.4	-99.1	-2.5	-11.7	0	0	-154.9	-138	-80
4th	121.1	6.7	67.4	2.4	11.3	-11	0	0	87.4	-334	136.4
5th	-71.7	78.5	-28.2	32.2	33.7	-20.6	0	0	-19.6	-97.5	-18.9
6th	23.2	-9.7	8.7	-2.3	-11.6	2.8	0	0	-85.7	-13.5	-16
7th	29.6	3.9	6.7	1.1	-25.9	-7.7	0	0	-29.9	12.2	20.8
8th	-15.4	0.1	2	0.6	25.1	1.7	0	0	-53.3	-12	0.1
									38.1	-1.6	-12.5
RUN/POINT	Flap Bending, in-lb	Blade 1, r/R=0.725	Flap Bending, in-lb	Blade 1, r/R=0.800	Flap Bending, in-lb	Blade 1, r/R=0.900	Flap Bending, in-lb	Blade 1, r/R=0.144	Chord Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb
40/12									Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.400
MEAN	467.2	-81.8	-749.9	-1963.4	-2429.3	-425.2					
RMS	786.8	866.9	647.5	5238.4	1680	56.8					
1/2 P-P	1375.2	1670	1404.6	7856.2	3355.3	119					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-788.4	-161.9	-507.9	-75.2	-66.8	-35	-6338.6	3751.8	-335.8	1122.1	29.6
2nd	-657.7	-132.4	-983.7	-105.4	-744.4	-13.3	666.2	-1.5	417.3	-129.6	2.8
3rd	-224.1	107.4	-283.5	32.7	-377.9	12.7	287.6	152.1	-538.3	-324	20.3
4th	54.6	49.6	264.3	71.6	220.3	14.6	-156.8	66.7	1644.1	-932.4	4
5th	-184.7	166.9	-195.8	232.3	36.5	186.8	89.6	-55.7	-252.1	88.9	19.3
6th	48	-14.8	23.5	-20.8	-4.7	9.6	-30.8	7.1	38.5	17.5	-1.6
7th	30	-1.2	-50.8	-16.9	-169.2	-33	48.1	46.7	-23.9	-33.2	-8.8
8th	25	-1.2	51.6	-3.5	37.6	-2.9	13.8	29.9	-8.8	-34.4	2.4

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144		Flap Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.144		Flap Bending, in-lb Blade 3, r/R=0.174		Chord Bending, in-lb Blade 3, r/R=0.325	
		MEAN	RMS	MEAN	RMS	MEAN	RMS	MEAN	RMS	MEAN	RMS
40/11	1944.4	-1851.7	2058	-2301.6	469.1	347.8					
	369.9	3885.1	390.6	3952.7	3315.7	1992					
1/2 P-P	668.2	5870	689.1	5962.5	5011.9	4012.6					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-25.7	-253.3	-2470.9	-4879.2	299.1	-3.1	4855.8	-2719.8	4095.1	-2235.2	2007.7
2nd	7.8	-111.5	-316.5	-70	-26	112	379.5	111.5	343	90.4	319.7
3rd	-247.5	-315	76	-287.3	-330.9	240.9	-244.6	-74.8	-166.7	-26	167.4
4th	136	33.1	-171.2	79.5	126.5	31.6	-15.6	9.4	193.8	-88	1078.8
5th	-59.5	-94.9	4.2	134.9	112.6	-46.9	-138.8	52.1	-54.3	25.8	297.2
6th	-40.2	0.5	52.4	-29.3	29.6	1.2	-21.9	26	-17.9	17.5	-38.9
7th	0.1	-32	-17.6	-16.9	-24.2	-5.8	-46.1	-15.4	-33.5	-15.6	-15.6
8th	3.6	14.2	47.6	-3.8	-2.7	18.9	34.8	-0.3	30.4	1.8	-12.1
											-5.9
											-1.1
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400		Flap Bending, in-lb Blade 4, r/R=0.144		Chord Bending, in-lb Blade 4, r/R=0.144		Torsion, in-lb Blade 4, r/R=0.400		Pitch Link, 1b Blade 1	
40/11	MEAN	-1174.5	-433.8	0	-3659	-534.5	-52.5				
	RMS	1661.4	41.3	0	3966.6	49	24.7				
1/2 P-P	3410.6	97.5	0	5977.7	103.6	40					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	914.6	-1135.2	-26.1	8.5	0	0	2403.8	5046.5	5.3	-44.5	-24
2nd	306.2	-98.3	-11.3	2	0	0	-318.8	-85.7	12.8	1.7	-2.5
3rd	413.8	247.2	32.1	12	0	0	-96.4	234.1	14.1	-23.9	-2.2
4th	1448.3	-847	17.6	29.6	0	0	-31.7	61.8	24.8	32.4	0.7
5th	450.7	-103.6	-2.9	4.1	0	0	21	-147.4	-3.8	-5.6	-0.4
6th	34.7	-21.8	-0.1	-5.3	0	0	27.5	-10.8	-1.1	5	-0.1
7th	12.8	10.5	3.3	3.5	0	0	-15.5	16.9	3.3	-3.7	-0.2
8th	-11.4	-7.8	-0.1	-0.3	0	0	40.2	14.6	-0.7	-0.4	0

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570						
MEAN	1991.9	1582.7	271.8	436	271.7	941.3	131	0	0	672.2	230.7	504	672.2	230.7	504	517.6	500.4	920.9
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	
1st	-437.7	35	-305.3	13	-153.1	-51.3	0	0	-158.2	-119.4	-482.3	-244.5	-244.5	-244.5	-244.5	-244.5	-244.5	
2nd	-22.9	97	-19.3	58.8	-33.3	21.4	0	0	-53.3	-2.9	-174.7	-75.1	-75.1	-75.1	-75.1	-75.1	-75.1	
3rd	314.6	-213.2	174.3	-111.1	-1.3	-14.5	0	0	-170	96.5	-359.2	172.7	172.7	172.7	172.7	172.7	172.7	
4th	120.4	31.5	66.8	16	10	-8.1	0	0	-62.8	-30.9	-93.9	-38.7	-38.7	-38.7	-38.7	-38.7	-38.7	
5th	-81.9	38.2	-32.4	17.1	32.7	-3.3	0	0	114.7	-31.4	-1.1	-17.8	-17.8	-17.8	-17.8	-17.8	-17.8	
6th	30.7	-4.6	12.4	-1.8	-12.7	-2.3	0	0	-36.6	0.5	15.3	6.8	6.8	6.8	6.8	6.8	6.8	
7th	23.3	2.5	2.3	-0.3	-27	-8.1	0	0	-47.9	-11.8	47.9	29.9	29.9	29.9	29.9	29.9	29.9	
8th	-3.3	-6.8	5.8	-0.8	16	6.7	0	0	20.5	9.6	-18.5	-20.2	-20.2	-20.2	-20.2	-20.2	-20.2	
RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.725		Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Flap Bending, in-lb Blade 1, r/R=0.944		Chord Bending, in-lb Blade 1, r/R=0.570		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400				
MEAN	337.8	-87.8	-638.4	-389.6	-389.6	-2567.9	-2567.9	-2567.9	-2567.9	-442.3	-442.3	-442.3	-442.3	-442.3	-442.3	-442.3	-442.3	
RMS	733.8	822.7	615.1	3948.7	3948.7	1547.8	1547.8	1547.8	1547.8	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	
1/2 P-P	1403.5	1530	1293.3	6067.9	6067.9	3238.1	3238.1	3238.1	3238.1	108.5	108.5	108.5	108.5	108.5	108.5	108.5	108.5	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	
1st	-677.8	-227.3	-462.9	-130.5	-39.2	-35.7	-4785.2	2822.8	-229.6	883.2	22.7	2.3	2.3	2.3	2.3	2.3	2.3	
2nd	-647.6	-68.3	-935	-66.2	-710	-16.8	405.9	72.6	337.2	-128.4	-17.3	3.2	3.2	3.2	3.2	3.2	3.2	
3rd	-234.4	140.1	-271.9	91.4	-356.4	67.3	250.4	119.7	-490.4	-268.9	-34.8	-9.5	-9.5	-9.5	-9.5	-9.5	-9.5	
4th	74.7	50.9	289.6	73.2	246.5	20.6	-149.6	44.6	1666.5	-757.4	27.2	31.2	31.2	31.2	31.2	31.2	31.2	
5th	-202.2	68	-227.1	111.3	11.6	101	133.8	-33.3	-334	30.9	1.6	-2.5	-2.5	-2.5	-2.5	-2.5	-2.5	
6th	65.6	-9.4	30.2	-7.7	-10.7	17.2	-17.2	33	-11.5	-5.2	3.1	-5.7	-5.7	-5.7	-5.7	-5.7	-5.7	
7th	24.9	5.5	-32.8	-24.8	-152.9	-43.6	4.6	18	13.2	-18.4	-1.6	-3.3	-3.3	-3.3	-3.3	-3.3	-3.3	
8th	17.5	3.8	15.9	20.2	12.7	15.3	47.5	3.9	-47.4	-8.2	0.1	0.5	0.5	0.5	0.5	0.5	0.5	

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
40/10	1150.7	-2705.7	1246.2	-2985	-140	146.5
MEAN	361.6	3226.4	380.4	3293	2756.8	1708.1
RMS	641.4	4935.5	691.1	5075	4180.4	3415.2
1/2 P-P						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	100	-215	-2147.3	-3998.7	249.7	120
2nd	8.8	-114.4	-276.9	-67.5	-22.9	118
3rd	-258.9	-313.5	52.3	-264.8	-328.7	249.2
4th	124.7	30.8	-153.2	84.3	124.3	27.9
5th	-37.6	-76.4	-19.3	114.5	92.6	-23.9
6th	-37.2	2.1	31.3	-18	30.7	2.1
7th	1.7	-27.8	-5.6	1.3	-18.6	-4.9
8th	2.9	2.2	32.8	-12.4	-4.4	13.6
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
40/10	-1227.6	-435.9	0	-4477.9	-530.5	-64.9
MEAN	1484.3	44	0	3309.8	47.7	17.4
RMS	3082.3	104.5	0	5051.8	101.4	29.5
1/2 P-P						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	742.3	-967.8	-26.5	14.1	0	2125.6
2nd	258.5	-84.2	-21.9	-4.5	0	-268
3rd	364.8	219.4	35.8	15	0	-67.7
4th	1336.7	-819.7	12.9	25.4	0	-39.7
5th	429.5	5.4	1	4.2	0	62.8
6th	26.6	-20	1.8	-5.9	0	19.8
7th	-1.1	-2.2	1.3	2.3	0	-0.1
8th	-8.5	2.9	0.1	2.1	0	0

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
		Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.370	Blade 1, r/R=0.570	Blade 1, r/R=0.400	Blade 1, r/R=0.370	Blade 1, r/R=0.400
MEAN	1205.4	1092.1	739.9	0	0	595.7	408.8				
RMS	418.1	261.2	130.6	0	0	224	484.6				
1/2 P-P	728	476.4	276.4	0	0	460.5	907.4				
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-401.9	-92.2	-278.8	-68.1	-143.4	-82.4	0	0	-151.2	-120.9	-449.7
2nd	-14.3	100.7	-14.1	61.3	-30	21.5	0	0	-50.3	-2.7	-159.4
3rd	315.1	-221.5	174.3	-115.5	-2.5	-13.9	0	0	-174.5	103.4	-369.3
4th	114.8	28	62.9	13.6	7.3	-8.9	0	0	-66	-27.6	-95.6
5th	-64.3	13.6	-25.6	6.5	23.6	2.5	0	0	86.9	-3.5	5.3
6th	28.9	-3.6	11.9	-1.5	-12.1	-3.3	0	0	-36.8	-2.1	18.2
7th	20.4	2.5	2.5	0.1	-22.9	-6.7	0	0	-41.3	-10	43
8th	-1.2	-13.5	5.7	-2.2	13.5	12.7	0	0	15.3	22.1	-9.8
RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
40/10	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.370	Blade 1, r/R=0.400	Blade 1, r/R=0.370	Blade 1, r/R=0.400	Blade 1, r/R=0.370	Blade 1, r/R=0.400
MEAN	230.9	-128.8	-571.1	-4804.6	-2591.7	-444.5					
RMS	672	759.9	585.2	3269.4	1448.4	48.6					
1/2 P-P	1290	1465.2	1180.5	5030.2	2935.4	106					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-595.9	-230.1	-418.6	-133.5	-31	-21.9	-3884	2461	-168.6	751.5	24.4
2nd	-600.9	-30.7	-864.4	-32.6	-670.7	1	332.8	77.6	293.9	-119.5	-28.7
3rd	-245.8	161.3	-268.9	129.7	-344.6	93.1	240	78.6	-452.2	-244.1	-38.3
4th	83	48.6	286.8	62.1	250.3	17	-140.6	48.9	1604.1	-740.1	21.3
5th	-156.3	16.4	-171.2	44.7	45.8	51.5	112	12.4	-290.5	-47.3	-1.7
6th	69.5	-11.3	23.8	-5.6	-17.9	18.6	-1.1	-0.3	-26.3	23.2	2.7
7th	22.5	8.2	-23.4	-23.7	-139.8	-37.2	14.6	18.5	3.5	-18.2	-5
8th	11.8	7.5	8	37.4	4.4	30.5	30.3	12.5	-27.8	-11.2	-1.6

RUN/POINT		Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
		Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	418.7	-3369.4	490.2	-3681.1	-763.5	-75.1			
RMS	322.4	2596.7	330.4	2653.1	2213.2	1427.2			
1/2 P-P	504.2	3941.3	519.7	4090.6	3407.4	2914.6			
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	76.6	-52.1	-1424.3	-3361.1	67	91.9	3405.5	-1537	2852.7
2nd	-19.8	-98.5	-170.1	-58.2	16.4	105.5	150.8	77.2	145.6
3rd	-253.4	-321.7	39.8	-227.9	-332	243.3	-213.6	-28.5	-155.3
4th	112	32.1	-162.4	98.2	119.4	30	13	9.8	188.9
5th	0.5	-68.3	-52	119.9	82.1	12.8	-133.4	-48.3	-50.1
6th	-38.8	-1.8	28.5	5.4	29.8	1.1	-7.3	-13.5	-7.1
7th	8.7	-24.7	20.9	-14.2	-17.4	-7.2	7.3	-27.8	9.1
8th	2.1	-17.9	-6.2	-42.6	1.6	-1.2	-14	-44.7	-11.8
RUN/POINT		Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Pitch Link, lb
40/ 9	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1
MEAN	-12888.5	-428.7	0	-5130.9	-518.3	-73.9			
RMS	1321.2	46.7	0	2690.2	48.2	12.4			
1/2 P-P	2834	107	0	4101.4	103.7	23.8			
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	670	-670.3	-22.6	20.8	0	0	1387.1	3527	-8.5
2nd	199.6	-82	-29.5	-6.5	0	0	-154.9	-42.5	30.2
3rd	308.1	222.9	38.4	17.9	0	0	-51	207.9	25.7
4th	1261.5	-772.6	7.8	21.7	0	0	-40.3	29.2	12.5
5th	418.9	129.8	5.5	6.1	0	0	72.3	-99.8	-5
6th	8.1	11.4	1.9	-5.2	0	0	-3.5	20.2	-2.3
7th	-22.7	20.4	1.2	1.3	0	0	19.4	-12.9	1.5
8th	5.5	22.4	-0.4	2.9	0	-4	-35.8	-2.4	0.2

RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.144	Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
		SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
MEAN	477.5	639.7	-555.3	0	0	527.5	309.3				
RMS	330.2	198.2	100.1	0	0	217.1	452.3				
1/2 P-P	552	370.5	229	0	0	448.3	810.6				
HARMONIC											
1st	-228.5	-57.5	-169.4	-48.7	-99.4	-69.9	0	0	-133.6	-109	-388.8
2nd	28	80.7	11.3	49.5	-20.1	16.8	0	0	-53	-2.5	-209.8
3rd	308.6	-205.7	168.9	-106	-5.8	-10.9	0	0	-181.2	100.5	-155.3
4th	105.3	24.6	57.1	10.7	5	-11.4	0	0	-65.1	-30.1	-379.1
5th	-51.6	-25.7	-20.2	-8.5	16.3	17.7	0	0	67.1	49.4	-88.9
6th	33.6	-2.2	12.6	-0.9	-16.4	-2.2	0	0	-46.9	-1.2	-36.6
7th	17.4	5	1.3	0.2	-21.9	-8.8	0	0	-39.2	-15.1	-12.2
8th	2	-12	3	-3.2	2.3	8.8	0	0	2.1	16.7	8.6
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800	Flap Bending, in-lb Blade 1, r/R=0.900	Flap Bending, in-lb Blade 1, r/R=0.144	Chord Bending, in-lb Blade 1, r/R=0.570	Chord Bending, in-lb Blade 1, r/R=0.400	Torsion, in-lb Blade 1, r/R=0.400				
MEAN	141.2	-157.9	-501.6	-5517.5	-2589.1	-437.3					
RMS	611.3	691.8	544.6	2613.1	1360.6	51.3					
1/2 P-P	1196.8	1369.8	1131	4010	2842.7	107.6					
HARMONIC											
1st	-525.1	-219.9	-385.3	-140.7	-30.2	-16.6	-3274.5	1668.9	-176.3	547.1	-7.6
2nd	-524.4	-15	-761.9	-13.6	-607.9	9.8	200.9	65	251.6	-108.7	-7
3rd	-268	183.3	-270.3	163.5	-328.5	110.5	206.3	53.8	-409.9	-231.7	-42.3
4th	85.2	51.6	273	68.4	247.4	31	-143.1	55.9	1568.9	-687.6	-27.7
5th	-114.4	-82.4	-124.8	-77.8	70.6	-32.9	110.8	47	-278.7	14.5	18.9
6th	80.2	-9.6	32.6	-2.9	-16.6	16.8	-8	3.2	-9.7	0	-8.6
7th	22.8	7.2	-25	-25.2	-137.4	-33.8	31.5	9.4	-10.3	-9.4	-4.6
8th	1.7	7.7	-9.4	28.5	-11.2	17.2	-4.1	-32.3	11.7	0.3	-1.9

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb	
	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.174	Blade 3, r/R=0.325	
MEAN	-274.8		-4004.8		-213		-4322.7		-1324.6		-277.1	
RMS	313.3		1912.5		321.8		2032.6		1693.3		1137.8	
1/2 P-P	507.8		2981		526.1		3179.3		2662.4		2405	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	
1st	81.1	-37.5	-1035.8	-2474.8	50.3	88.9	2623.2	-1133.6	2194.2	-915.7	1103.7	
2nd	-29.3	-110.7	-115	-13.7	34.6	120.3	139.2	8.2	136.1	8.2	170.7	
3rd	-235	-315.5	38.9	-168.4	-318.5	230.6	-150.4	-25.7	-110	7.3	87.8	
4th	103.1	30.6	-162.3	83.7	114.8	27.9	9.9	19.9	156.5	-55.4	805.9	
5th	15.5	-79.1	-52.7	135.8	100.6	17.8	-172.9	-16.3	-80.1	-8.1	290.3	
6th	-30.9	0.9	29.4	3.6	25.6	-3.4	-7.2	-3.3	-10.7	-5.5	5.9	
7th	8.4	-22.4	14.9	-5.7	-14.4	-8.3	22.3	-36.1	22.7	-29.1	7.8	
8th	1.8	-13.8	-2.5	-33.3	4.6	-3.7	-7.7	-45.5	-1.1	-40.5	-2.4	
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Chord Bending, in-lb	Blade 4, r/R=0.144	Torsion, in-lb	Pitch Link, lb	Pitch Link, lb	Pitch Link, lb	
40/ 8	Blade 3, r/R=0.450	Blade 3, r/R=0.450	Blade 3, r/R=0.400			0	-5745.9	-503.3	-79.6			
MEAN	-1356.4		-418.9			0	2001.2	47.6	9.1			
RMS	1100		47.7			0	3137	101.4	17.9			
1/2 P-P	2358.6		104.8			0						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	
1st	524	-510.2	-22.3	30	0	0	1025.7	2620.9	-17.5	-31.2	-7.7	
2nd	180.9	-75.1	-31.7	-8.8	0	0	-121.7	12.6	31.7	10.2	2.4	
3rd	242.2	185.6	36	18.9	0	0	-57.1	148.1	26.4	-31.7	0.6	
4th	1061.9	-613.2	3	15.9	0	0	-54.2	22.9	8.7	15.3	-0.1	
5th	471.7	104.2	8	3.3	0	0	67.1	-140.9	-2.8	6.5	-0.1	
6th	7.1	-1.5	2	-4.4	0	0	-0.6	17.9	-2.5	3.7	-0.2	
7th	-24.2	25.2	0.3	0.9	0	0	17.5	-24.9	1.5	-0.2	0.1	
8th	3	16.7	-1.2	2.2	0	0	-3.8	-29.8	-1.7	2.6	0.1	

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
		Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.570	Blade 1, r/R=0.570	
MEAN	-193.3	223.1	386.2	0	0	468.6	468.6	212.8	-189.1	-333.8	
RMS	331.7	196.9	92.3	0	0	205.6	205.6	408.3	-139.9	-356.5	
1/2 P-P	543.6	341.6	202.4	0	0	422.1	422.1	757.3	-61	170.4	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-227.6	-42.5	-164.9	-40.3	-97.1	-63	0	0	-121.6	-100.2	
2nd	49.1	100.6	23.7	61.4	-14.4	19.8	0	0	-50.1	-6.3	
3rd	304	-203.3	167.8	-105.8	-0.3	-14.3	0	0	-166.8	92.6	
4th	105.8	22.8	58.2	10.5	6.9	-9.7	0	0	-61	-26.3	
5th	-74.8	-30.6	-29.1	-11.3	23.3	19.3	0	0	93.1	55.1	
6th	29.5	-3.6	11.3	0.1	-14.3	2.3	0	0	-41.1	7.6	
7th	14.1	3.7	0.4	-0.7	-18.8	-8.9	0	0	-33.4	-13.2	
8th	9.5	-12.5	5.5	-4	-1.2	6.2	0	0	-6.7	14.3	
RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Torsion, in-lb					
40/ 8	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.400	
MEAN	55.7	-199.6	-437.3	-437.3	-6196.9	-6196.9	-6196.9	-2609.5	-426.2	-426.2	
RMS	540.2	612.2	493.5	1926.3	1926.3	1174.4	1174.4	50.9	50.9	50.9	
1/2 P-P	1084.2	1242.4	989.9	3081.4	3081.4	2485.2	2485.2	111	111	111	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-431.9	-198.8	-317.4	-133.9	-13.5	-14	-2398.6	1246	-123.6	417.6	
2nd	-453.6	-12.4	-655.1	4.6	-542.7	28.7	155.4	2.5	217.8	-88.8	
3rd	-267.2	163	-271.1	145.8	-314.7	101.4	147.3	47	-323.1	-191	
4th	92.5	42.3	254.1	37.3	230.7	0.1	-138.8	52.6	1374.2	-560.2	
5th	-164.5	-91.4	-168.8	-83.9	29.8	-50.8	153.9	46.3	-349.6	-152.9	
6th	71.8	-16.1	23.5	4.2	-5.3	33.4	-5.3	3.6	-17.6	-4.3	
7th	21.3	9.3	-23.2	-26	-126.1	-21.9	17	2.2	-0.8	5.4	
8th	-3.2	6.4	-15.4	26.7	-33.1	11.6	-0.2	-25.5	8.4	-1.2	

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144				Flap Bending, in-lb Blade 3, r/R=0.144				Chord Bending, in-lb Blade 3, r/R=0.144				Chord Bending, in-lb Blade 3, r/R=0.174				Chord Bending, in-lb Blade 3, r/R=0.325			
		SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE		
MEAN	-900.6	-4630.9	-860.2	-4988	-1904.9	-503.4															
RMS	358	1452.1	363.7	1592.3	1323.9	989.1															
1/2 P-P	599.1	2386.7	637.6	2669.8	2267.8	2105.6															
HARMONIC																					
1st	220.7	-60.5	-981.3	-1766.7	50.3	243	1942.5	-1086.8	1627.3	-871.9	813.8	-588.3									
2nd	-6.2	-64	-131.7	-43.2	-0.1	80.5	171	28.7	155.4	26	178.5	-43.5									
3rd	-260	-337	39.5	-125.7	-337.7	249.5	-110.8	-40.9	-85.2	-4	66	126.8									
4th	97.3	24.4	-161.6	107.3	109.3	23.3	10.7	23.6	148.6	-74.1	747.6	-510.2									
5th	55.7	-32.7	-96.4	89.9	38.4	51.3	-144.2	-90.2	-72.8	-45.7	166.6	170									
6th	-39.7	8.4	29.6	8.1	34.5	-11.5	-14.7	-0.3	-11.9	0.9	0.6	2.1									
7th	3.5	-15.6	11.8	-11.3	-11.3	0.8	24.5	-27	24.7	-20.8	1.4	-12.5									
8th	-0.9	-28	-86.5	-17.6	-7.7	-12.5	-88.3	-28	-76.2	-28	-39.6	-17.2									
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400				Flap Bending, in-lb Blade 4, r/R=0.144				Chord Bending, in-lb Blade 4, r/R=0.144				Torsion, in-lb Blade 4, r/R=0.400				Pitch Link, lb Blade 1			
40/ 7																					
MEAN	-1432.8	-406.8	0	0	-6374	-484.3	-82.8														
RMS	1046.4	50.5	0	1522.3	49.5	7.8															
1/2 P-P	2080.2	107	0	2618.8	100.6	17															
HARMONIC																					
1st	377.9	-453.7	-17	36.1	0	0	1031.7	1860.8	-23.5	-23.4	-3.4	-9.3									
2nd	169.6	-73.4	-31.4	-4.5	0	0	-143.1	-27.4	33.1	7.3	2.6	-1.2									
3rd	196.7	164.1	41.9	13.9	0	0	-62.5	107.7	25.1	-39.3	0.8	1.3									
4th	982	-768.5	3.1	18.8	0	0	-47.5	13.8	6.4	14.8	0.1	0.1									
5th	307.5	254.5	6.9	8	0	0	116.4	-85	-8.8	7.3	0.1	0.2									
6th	8.8	-0.7	1.7	-4.6	0	0	1.4	10.4	-1.2	4	-0.1	-0.1									
7th	-27.3	15.8	1.6	1.3	0	0	25.3	-13.2	1.1	-1.2	0	0									
8th	34.5	14.6	0	3.1	0	0	-89.8	-22.4	0.9	3.5	0.1	0.2									

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144	Flap Bending, in-lb Blade 1, r/R=0.167	Flap Bending, in-lb Blade 1, r/R=0.215	Flap Bending, in-lb Blade 1, r/R=0.280	Flap Bending, in-lb Blade 1, r/R=0.325	Flap Bending, in-lb Blade 1, r/R=0.570
40/7	MEAN	-813.4	-163.1	227	0	408	121.5
	RMS	378.7	226.1	108.9	0	209.6	392.8
	1/2 P-P	682.6	430.4	232	0	453.9	714.6
HARMONIC		SINE	COSINE	SINE	COSINE	SINE	COSINE
1st		-247.5	-191.7	-173.2	-130.8	-103.3	-95.2
2nd		8.6	48.4	0.8	29.8	-21.5	11.8
3rd		333.4	-233.5	185.2	-121.9	3.5	-16.4
4th		102	18.2	56.2	7.8	7.2	-9
5th		-18.4	-72.7	-7.8	-28.6	-3.3	27.3
6th		41	-10	15.9	-2.1	-18.5	3.7
7th		11	-3	0.8	-3.3	-15.3	-5.4
8th		2.1	-23	1.4	-3.5	-2.3	22.2
RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800	Flap Bending, in-lb Blade 1, r/R=0.900	Flap Bending, in-lb Blade 1, r/R=0.144	Chord Bending, in-lb Blade 1, r/R=0.570	Torsion, in-lb Blade 1, r/R=0.400
40/7	MEAN	-60.6	-275.1	-397.3	-6867.6	-2622.8	-412.4
	RMS	484.1	544.6	469	1511	1134.6	52.4
	1/2 P-P	941.7	1108.5	940.9	2382.9	2190.4	105.6
HARMONIC		SINE	COSINE	SINE	COSINE	SINE	COSINE
1st		-341.9	-170.2	-259.5	-10.2	-14.2	-1727.5
2nd		-382.1	39.2	-534.2	59.8	-460.5	54
3rd		-280	212.5	-270.8	210.3	-291.2	150.9
4th		92.7	41.8	230.4	26.2	216.2	7.4
5th		-0.7	-174.5	31.9	-195.6	163.3	-142.2
6th		87.6	-23.1	34.4	-6.5	-7.1	15.9
7th		20.1	-1.5	-21.2	-22.3	-115.5	-3.3
8th		-11	17.1	-5.3	63.6	-17.3	55

RUN/POINT		Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
		Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.174	Blade 3, r/R=0.325	
MEAN	-2325.5	-5564.2	-2305.4	-5940.7	-2759.8	-796.5					
RMS	288.7	439.8	292.1	556.8	449.9	481.1					
1/2 P-P	671.1	879.7	672.4	1068.2	911.3	1023.1					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	38.7	178.1	16	-553.9	-203.3	37.5	729.2	19.7	597.9	27.1	321.3
2nd	-99.7	-38	53.9	-5.3	101.3	47.1	-29.3	-4	-10.5	-5.7	51.2
3rd	-212.6	-222.3	32.4	-49.9	-225.3	195.9	-36.5	-32	-33.9	-3.7	25.4
4th	71.5	21.1	-106.3	86.2	80	20	22.7	6.4	97.8	-35	424.1
5th	114.1	-76.2	-136.8	97	67.3	111.5	-158.2	-175.5	-76.8	-94.7	178.7
6th	-31.5	9.3	12	5	32.5	-11.1	-5.7	-11.2	-1	-6.4	14.9
7th	7.2	-8	-4.5	29.8	-5.2	-3.4	21.6	20	17.2	16.2	0.5
8th	4.2	-37.8	-37.5	-76.3	8	-23.2	-35.4	-80.3	-27.9	-71.9	-15.3
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
		Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 4, r/R=0.400	Blade 1	
MEAN	-1509.1	-371.3	0	-7249.6	-435.9	-85.4					
RMS	632.7	48.5	0	482.9	43.7	4.7					
1/2 P-P	1364.5	102.7	0	973.4	92.4	12.1					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	170.7	-72.9	-14.9	47.4	0	0	-39.1	626.1	-36.3	-18.7	-3.8
2nd	74.2	-47.4	-28.1	-7.3	0	0	67.7	11.6	28.8	7.1	1.7
3rd	70.1	90.7	30.6	1.4	0	0	-42.6	36.6	10.4	-27.3	0.8
4th	546.1	-361.6	4.2	14.2	0	0	-39.3	-21	5.5	9.7	-0.2
5th	345.2	429.1	11	3.8	0	0	171.8	-94.1	-5.2	12.9	-0.2
6th	20.7	4.6	4.2	-5.5	0	0	20.5	6.2	-5.2	3.9	0
7th	-21.1	-9.1	-0.8	0.1	0	0	11.6	12.5	-1.3	1.5	-0.1
8th	15.2	26.9	-1.7	4.5	0	0	-29.1	-68.6	-2.3	4.8	0.2

RUN/POINT		Flap Bending, in-lb									
		Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570
MEAN		-2219.7		-1032.6		-127.1		0		288.6	
RMS		251.3		132.5		56.5		0		184.8	
1/2 P-P		529.7		274.6		143.4		0		417.1	
HARMONIC COSINE SINE COSINE SINE COSINE SINE COSINE SINE COSINE SINE COSINE											
1st	20.5	23.3	-0.7	1	-25.4	-31.6	0	0	-69.4	-65.3	-134.5
2nd	117.9	28.6	66.3	19.4	4.5	6.9	0	0	-47.6	5.2	-132.5
3rd	225.1	-180	127.1	-94.7	5.6	-13	0	0	-113.9	80.2	-253.3
4th	72.1	15.2	39.2	6.6	3.9	-5.6	0	0	-43.3	-13.4	-49.8
5th	-55.9	-126.3	-22.1	-51.6	6.1	44.5	0	0	49.5	161.1	14.9
6th	31	-10.4	11.8	-3.3	-14.2	2.6	0	0	-41.8	14.4	27
7th	4.5	3.9	1.5	1.2	-2.3	-3.3	0	0	-5.6	-5.3	0.7
8th	6.5	-35.6	2.3	-7	-8.6	31.8	0	0	-13	59.2	34.4
RUN/POINT Flap Bending, in-lb Flap Bending, in-lb Flap Bending, in-lb Chord Bending, in-lb Chord Bending, in-lb Torsion, in-lb											
40/ 6	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.400	Blade 1, r/R=0.400	Blade 1, r/R=0.400
MEAN		-195.7	-344.4	-278.9	-784.5	-2647.3				-373.6	
RMS		368.5	409.3	331.9	456.8	751.1				46.4	
1/2 P-P		749.8	838.3	694.1	949.5	1578.3				93.5	
HARMONIC COSINE SINE COSINE SINE COSINE SINE COSINE SINE COSINE SINE COSINE											
1st	-126.8	-120.1	-89.9	-95.3	12.5	-25.2	-562.7	66	-54	92.5	15
2nd	-245.8	34.4	-298.6	52.8	-254.9	43.6	-26.9	2	104.6	49.2	-31.3
3rd	-213.8	154.3	-193.6	144.1	-175.7	112.4	39.1	36.5	-115	-78.9	-34.2
4th	67.9	20.8	140.4	14.4	145.2	-4.4	-117.2	23.2	856.8	-290.3	6.2
5th	-67.2	-306.2	-71	-358.4	18.5	-260	121.3	190.1	-235.2	-426.9	-14.6
6th	62.7	-21.2	26.4	-13.3	-14.3	5.5	-11.2	-6.1	16.1	3	5.6
7th	9.5	1.4	-6.3	-8.6	-53.2	2.9	-8.9	23.3	19.6	-20.4	1.4
8th	-13.5	24.3	-21.7	96.7	-25.5	97.1	-30.6	-72.7	36.3	74.2	0.2

RUN/POINT		Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
40/ 5	MEAN	-3663.8	-6361.4	-3658.7	-6704.8	-3471.6	-1027.6	
RMS	290.4	343.5	313.6	274.5	224.7	205.3		
1/2 P-P	551.8	748.3	586.7	647.5	500.7	461.9		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	93.1	167.8	160.4	361.3	-224.7	90.6	-204.7	158.5
2nd	-330.3	35.2	233.7	-26.7	341.4	-22.6	-237.5	21.8
3rd	-90	-94.9	11.2	-0.2	-93.8	85	3.4	-8.6
4th	43.6	-6.4	-45.9	29.4	46.8	-6.7	-2.1	-8.9
5th	10.9	-19.3	-26.2	11.1	20.3	11	-48.7	-30.1
6th	-9.1	8.1	-3.2	0.2	13.5	-9.2	1	3.4
7th	1.3	-3.6	18.3	9.2	-3.5	-0.5	23.1	12.2
8th	-6.1	-33.9	-21.2	-35	1.6	-34.7	-20	-37.1
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Flap Bending, in-lb Blade 4, r/R=0.400	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1	
40/ 5	MEAN	-1571	-330.3	0	-7997.4	-380.4	-79.3	
RMS	266.7	49.1	0	320.2	42.6	3.4		
1/2 P-P	505.6	82.2	0	694.2	74.3	9		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-28.2	-5.4	-20.5	58.1	0	0	-163.1	-281.3
2nd	9.5	-19.1	-26.8	-11	0	0	273.9	-13
3rd	39.4	31.3	4.9	-3.2	0	0	-6.6	-1.3
4th	289.6	-171.3	-6.9	-5.1	0	0	-34.9	-0.2
5th	95.8	62.7	-0.8	-1.9	0	0	30.8	-15.3
6th	2.7	-11.7	2.4	-0.8	0	0	16.3	-7.9
7th	-14	-7	-0.3	1.5	0	0	16.5	0.4
8th	6	18.7	-1	3.7	0	0	-16	-39.8

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
		Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.370	Blade 1, r/R=0.400	Blade 1, r/R=0.570	Blade 1, r/R=0.400	Blade 1, r/R=0.570
MEAN	-3515.2	-1833.9	-453.7	0	0	185.6	-153.7				
RMS	276.4	161.3	61.7	0	0	92.3	201.3				
1/2 P-P	507.6	277.7	151.9	0	0	245.2	384.7				
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	30.4	-39.9	14.7	-34.4	-8	-36.9	0	0	-23.2	-49.9	48.5
2nd	360.7	-43.7	212.1	-19.6	56.4	-6.2	0	0	-65.5	10.8	-224.2
3rd	94.2	-74.9	53.5	-38.7	3.6	-4.2	0	0	-46.3	38.3	-112.4
4th	42.6	-2.5	23.1	-0.3	0.5	-1	0	0	-29.1	4.8	-28.1
5th	-15.3	-13.4	-6.1	-5.6	3.5	5.5	0	0	15.6	21	-2.7
6th	9.3	-5	3.9	-0.6	4.3	3.3	0	0	-13.7	10	9.2
7th	6.3	1.1	3.7	0.2	-1.6	-2.5	0	0	-7.4	-3.4	-6.4
8th	2.8	-25.8	0.7	-2.6	-5.5	28.7	0	0	-7.1	48	27.2
RUN/POINT	Flap Bending, in-lb	Flap Bending, in-lb	Flap Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Torsion, in-lb	Torsion, in-lb
40/5	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.325	Blade 1, r/R=0.370	Blade 1, r/R=0.570	Blade 1, r/R=0.400	Blade 1, r/R=0.570	Blade 1, r/R=0.400	Blade 1, r/R=0.570
MEAN	-296.4	-390.9	-188.3	-869.1	-2693.8	-2693.8	-2693.8	-2693.8	-329.2	-329.2	-329.2
RMS	260.9	264.4	179.4	334.2	365.3	365.3	365.3	365.3	42.6	42.6	42.6
1/2 P-P	467.8	518.5	422.2	719.8	814.3	814.3	814.3	814.3	73.6	73.6	73.6
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	154.9	-90.4	182.2	-77.5	100.9	-32.9	361	-46.3	5.6	41.5	21.1
2nd	-262.8	52.8	-226.8	65	-78.8	43.1	-248.5	32.8	53.4	-21	-27.9
3rd	-136.2	82.5	-144.6	84.7	-126.5	71.6	4.7	10.3	-47.3	-19.4	-19.4
4th	29.2	-8.4	48.3	-12.9	39.8	-7.9	-59.1	24	423.2	-216.2	-216.2
5th	-12.8	-44	-9.8	-58.2	6.7	-46.3	39.6	24.6	-73.2	-58.3	-58.3
6th	24.5	-11.5	20.8	-7.7	11.5	-5	-7.2	-5	13.2	3.9	0.1
7th	2.5	-4.6	-9.9	-4.5	-16.3	1	15.6	16.2	-14.8	-12.3	0.4
8th	-6.1	18.6	-20.4	74.5	-29.3	80.8	-19.8	-43	20.9	42.5	-1.5

RUN/POINT		Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
		Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN		3213.2	-725.3	3302.6	-1165	1473.7	503.5		
RMS		541.5	5017.7	605	4889.6	4109.3	2544.2		
1/2 P-P		1154.6	7581.5	1249.6	7533	6394.7	5232		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-257.5	-401.6	-2969.6	-6387.8	503.4	-267.2	5974.1	-3374.9	5040.7
2nd	141.1	-45	-518.1	-141.9	-199.9	42.9	676.3	124.4	586.8
3rd	-311	-405.3	110.4	-437.5	-441.1	320	-410.6	-104.3	-280.6
4th	187.3	-9.6	-310.5	200.5	187.9	-3.3	35.6	30.3	298.9
5th	-48.8	-177.7	32.8	226.9	165.2	18	-173.8	45.8	-54.7
6th	-45.5	26.6	41.2	-46.7	43.6	-19.9	-10.8	50.5	-14.8
7th	8.5	-35.2	45.2	-21.9	-29.2	-11.2	-17.4	-28.7	-15
8th	-9.4	22.2	8	90.9	-8.4	5.8	7	102.1	2.2
MEAN								88.3	-15.1
RMS								49.5	
1/2 P-P									
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-1296.9	-394.4	4752.5	-2484.1	-	-	-	-510.9	2.7
2nd	2276.1	73.6	3782	5154.4	-	-	-	77.7	71.1
3rd	4699.1	127.7	6930.6	7754.4	-	-	-	144.5	524.6
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	1067.6	-1401.3	-30	0.5	-2424.3	1413.4	2777.5	6691.5	4.2
2nd	446.5	-141.6	30.7	42.8	1966.5	-1897.7	-585.5	-182.1	-22.4
3rd	662.7	355.4	52.4	-27.3	-441.6	2329.9	-143	331.9	-23.5
4th	1833.1	-1625.2	32.2	43.2	163	-1358.4	-57.4	182.3	44.3
5th	652.2	43.4	-15.5	12.5	325	817.4	-21.5	-238.4	-7.9
6th	12.4	-51.3	-5.6	-7.4	-79.8	-55.6	48.8	-37.9	8.8
7th	-13.7	2.5	6.6	3.4	-444.9	-108.9	-19	25.2	8.9
8th	-0.2	-41.7	4.7	1.3	789.7	-23.5	16.5	79.8	4.4
MEAN								-1.5	-3.7
RMS								8.1	
1/2 P-P									

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
21/11		3107.2	2256.8	-286.7	839.4	775.3	672.8						
MEAN		658.6	407.3	219.6	253.2	303.9	585.3						
RMS		1399.4	810.5	468	537.9	650.9	1136.3						
1/2 P-P													
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE		
1st	-604.2	364.4	-416.7	218.2	-158.3	-60.4	-176.2	-70.4	-183	-101.5	-565.4		
2nd	-191.1	87.2	-121	48.6	-42.2	5	-47.1	5.4	-38.3	-0.7	-146.8		
3rd	423.2	-277.7	234.7	-146.8	-142.5	68.8	-168.8	82.4	-222.4	124.4	-466.8		
4th	180.4	-19	101.9	-12.7	-53.1	-15.3	-59.3	-15.1	-91.7	-10.5	-149.6		
5th	-172.8	-11.5	-68.4	-2.6	162.1	35.6	188.1	41.2	226.8	42.5	0.7		
6th	36.6	-17.7	12.4	-4.9	-43	14.4	-50.5	17.2	-53	22.3	40.3		
7th	33.7	9.1	7.6	0.4	-49	-27.8	-56.7	-31.6	-58.2	-27.3	48.1		
8th	-26.9	12.9	-1.8	8	51.7	-6.4	60.3	-6.5	54.8	-10	-67.7		
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725		Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Chord Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400		
21/11													
MEAN		370.3	-162.3	-747.9	-2602.3	-2613.9	-417.2						
RMS		851.5	955.4	682.4	4795.2	2192.8	81.1						
1/2 P-P		1739.5	1851.1	1389.3	7403.5	4606.8	1633.3						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE		
1st	-711.9	-205.5	-431.4	-93.2	-55.7	-12.1	-5922.4	3176.9	-277.5	1010.1	36.2		
2nd	-745.8	-37.6	-1040.1	-35	-738.9	11.8	679.1	51.2	424.6	-139.5	30.7		
3rd	-335.4	120	-443.9	67.9	-498.9	29.5	398.8	178	-777.7	-373.7	-57.3		
4th	113.5	36.8	370.8	3.5	251.9	-20.1	-196.3	95.2	2220.2	-1478	63.1		
5th	-423.3	-63.4	-438.2	-36.2	-86.9	-41.2	223.5	-40.3	-585	-69.4	7.8		
6th	88.7	-47.1	8.1	-3.8	0.6	54.6	-46.1	23.6	46.6	14.6	-10.6		
7th	40.7	10.4	-33.9	-47.8	-180.7	-29.7	46.5	51.1	-17.9	-37.8	-4.2		
8th	22.2	16.7	79.7	-9.9	61.4	-67.4	14.2	93.9	-10.4	-109.2	5.7		

RUN/POINT		Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
		Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	1641.7	-2112.4		1730.6		-2913.4		-94.6		-134.6	
RMS	426.6	3719.7		438.5		3809.3		3190		2134.6	
1/2 P-P	808.1	5560.8		862		5811.1		4941		4412.5	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-78.1	-215.5	-1932.3	-4854	242.6	-42	4889.3	-2179.9	4107.2	-1777.6	2019.2
2nd	54.6	-54.7	-313.3	-142.4	-78.4	60.4	376.1	196.9	336.8	157.5	331.7
3rd	-300	-412.7	79.9	-366.6	-421.9	293.3	-321.7	-74.3	-221.9	-21.7	11.8
4th	173.5	2.6	-228.7	92.3	179.8	24.8	28.3	85.8	296.2	-119.1	1447.4
5th	-21.5	-86.7	-43.2	151.5	108.1	0.8	-162.3	-8.9	-60.8	0.4	338.8
6th	-58	27.4	49.4	-36.2	50.2	-11	-30.6	59.5	-28.6	36.8	76.3
7th	9.6	-31.6	2.5	6.6	-18.4	-14	-15.6	1.5	-12.8	9.7	-16.8
8th	-6.2	-17.4	-68	1.1	-1.7	8.5	-79.9	7.1	-70.1	-3.9	-2.3
MEAN	-1539.1	-421.2		4679.5		-4136.9		-520.7		-38.2	
RMS	2094.8	53		5121.7		3805		60.6		31.4	
1/2 P-P	4264.2	119.6		7797.9		5772.6		123.2		57.3	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	934.3	-954.3	-25.8	0.6	-4182.8	-636.1	1865.9	5015.9	7.7	-46.1	-31.2
2nd	324	-89.7	-15.5	16.4	3276.3	-819.8	-323.3	-173	17.6	-9.8	27.8
3rd	514.2	292	44.9	12	-3119.6	714.3	-104.6	314.4	18.4	-41.9	5.1
4th	1901.7	-1612.4	24.2	35.5	1247.3	871.5	-16.7	48.4	28.8	37.9	-5.7
5th	515.4	87	-5.3	10.1	548.1	489	94.1	-165.7	-12.3	-4.9	-1
6th	29.4	-61.8	0.1	-7.3	20.1	-95.7	45.9	-10.3	0.1	6	6.1
7th	-8.8	-5.9	5.3	4.1	1021.4	-1064.6	3.3	23.2	4.3	-3.4	-2
8th	30.3	-7.4	1.5	2.1	-1618.5	-100.1	-65.6	18	-0.4	4.2	0.2

RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	269	-3406.3	324.8	-4064.4	-1127.5	-481.6		
RMS	378.9	2557.8	388.5	2674.6	2232.4	1633.2		
1/2 P-P	650.3	3932.5	650.4	4152.4	3580.9	3427.8		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	57.7	-57.1	-1230.5	-3368.5	42.2	81.2	3511.4	2935.9
2nd	22.7	-38.9	-175.9	-136.2	-37.7	56	174.1	-1341.9
3rd	-297.4	-400.7	53.3	-260.9	-412.7	284.1	-243.5	-178.5
4th	149.9	8.2	-194.2	110.5	165.3	23.5	33.2	60.1
5th	-0.6	-42.2	-62.5	118.5	77.9	5.6	-107.8	-34.4
6th	-46.3	19.6	18.7	6.6	49.7	-11	-6.4	9.7
7th	-0.3	-29.1	29	-18.2	-16.5	-4.8	6.4	-37.6
8th	-16.8	-23.7	-99.9	-15.8	5.8	-13.8	-124.7	-1.2
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Pitch Link, lb
	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1
MEAN	-1604.4	-417.2	3511.3	-5187.6	-504.3	-56.9		
RMS	1730.1	54.7	5243.1	2708	57.4	19.8		
1/2 P-P	3517.8	120.4	8141	4178	122.2	40.2		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	707.7	-592.6	-24.4	15.5	-820.7	-3612.2	1205.1	-5.9
2nd	231.1	-57.3	-28.1	2.2	-1670.9	-2556.5	-149.6	-121.6
3rd	369.5	244.6	55.3	15.2	-2691.6	3368.1	-75.2	234.6
4th	1682.9	-1353.8	16.5	23.1	1571.2	780.6	-60.4	42.3
5th	395	123.7	-2	9.5	998.7	700	79.6	-106.6
6th	-1.6	-20.1	1.6	-6.4	-73.6	-792.4	7.6	24.4
7th	-16.8	22.7	5.6	1.8	675.8	67	31.7	-19.2
8th	49.5	8.8	-1.1	4.5	-100.6	-530.7	-103.1	-8.4

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
		Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325
MEAN	283.7	504.9	-576	515.5	507.3	289.6					
RMS	379.1	220.2	171.8	199.1	246.5	495.2					
1/2 P-P	661.7	400.5	405.2	466.4	537.8	920.3					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-197.9	-43.6	-152.9	-40.9	-107.6	-81	-120.6	-92.4	-137.5	-105.9	-403.6
2nd	-26.4	41.1	-21.1	23.9	-38.7	1.8	-45.1	2	-46.4	0.5	-136.2
3rd	388.3	-253.4	214.1	-131.3	-138.9	65.2	-165.6	77	-21.9	119.5	-452.5
4th	148	14.9	80.5	4.3	-54.8	-26	-62	-28.8	-92.2	-29.1	-120.8
5th	-48.5	-24.4	-20.2	-7.4	39.9	34.1	47.3	39.7	61	48.3	-120.8
6th	44.2	-9.7	13	-1.3	-55.2	9	-63.5	11.5	-70.6	16.5	48.8
7th	13.8	2.3	-1.9	-1.4	-35.4	-13.5	-41.1	-15.2	-39.9	-11.2	2.9
8th	5.4	-28	-2.6	-4.3	-21.2	41.9	-23.5	50	-19.3	50.6	-56.8
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb
21/9	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.144	Blade 1, r/R=0.144	Blade 1, r/R=0.144	Blade 1, r/R=0.400
MEAN	44.8	-243.1	-519.6	-5630.4	-5630.4	-5630.4	-2719.6	-2719.6	-2719.6	-2719.6	-428.6
RMS	626.7	720.3	605.6	2647.5	2647.5	2647.5	1784.3	1784.3	1784.3	1784.3	64.4
1/2 P-P	1198.1	1481.7	1260.2	4096.2	4096.2	4096.2	3370.9	3370.9	3370.9	3370.9	136.3
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-452.4	-218	-322.4	-159.1	-11.4	-5.5	-3440.1	1408.6	-245.1	471.7	23.1
2nd	-528.8	23.9	-724.3	40.9	-576.9	38.6	205.1	122.5	264.9	-120	-34.9
3rd	-376.9	223.8	-430	223	-457.8	145.5	234.8	68.3	-519.7	-243.4	-63.5
4th	158.7	42.6	353.3	13.8	262.5	-8.2	-161.9	88	2068.1	-1115.7	27
5th	-101.8	-71.8	-37.6	-69.2	184.3	-48.3	89	40.7	-248	-142.2	2.3
6th	106.1	-33.4	21.5	0	15.8	31.5	-1.5	-19.5	-26.3	40	4.7
7th	33.2	3.5	-42.2	-32.7	-191.9	-11.3	53.6	1.2	-25.9	-13.4	-4
8th	-24.6	26.2	-23.4	78.8	-62.5	62.3	-103.9	-5.6	110.8	-4	3.2

RUN/POINT		Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb
		Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	-423.2		-3977.9		-377.2		-4669.7		-1668.7
RMS	419.2		1581.5		412.7		1773.6		1486.8
1/2 P-P	695.8		2613.3		691.4		2926.1		2572.4
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	34.3	-238.1	-879.9	-2008.3	213.3	55.8	2277.9	-970.3	1910.2
2nd	6.1	-37.4	-158.9	-56.8	-17.6	52.3	224.7	69.6	205.4
3rd	-310.1	-408.8	60.8	-189.9	-407.1	300	-170.8	-60.1	-125
4th	138.6	9	-225.8	84.8	152.5	12.7	7	45.3	226.3
5th	52.4	-39.3	-76.3	138.9	63.6	36	-135.3	-51.7	-57.1
6th	-55.3	20.9	27.3	-12.9	51.4	-12.9	-29.4	15.4	-28.4
7th	-5.1	-20.1	-7.3	-1.1	-18.4	-3.4	-21.8	-10.1	-19.8
8th	-5.8	-27.3	-140.6	-19.6	-1.1	-23.9	-15.7.1	-15.4	-137.4
RUN/POINT		Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Pitch Link, lb
21/8	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1
MEAN	-1662.5		-405.8		1485.8		-5747.5		-489.1
RMS	1512.4		55.5		4665.8		1699.8		54.6
1/2 P-P	2997.4		116.9		8731.5		2833.1		113.1
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	404.9	-434.4	-19.4	27.9	1268.3	-3058.3	870	2206	-15.7
2nd	244.9	-80.9	-30.8	-1.2	-2424.6	-2243.9	-171.7	-71.6	33.4
3rd	305.6	202.6	57.1	11.4	-2243.3	1697.1	-91.1	167.3	19.4
4th	1529.3	-1215.2	7	19.4	345.9	2348.3	-51.9	84.4	13
5th	363.3	222.7	1	8.8	1650.4	550.2	100.1	-143	-12.3
6th	25.8	-20.2	3.1	-6.7	715.5	-886.4	11.9	30.1	-1.4
7th	6.9	0.3	2.6	2.1	-225	-534.8	-22.9	-3.3	3.2
8th	66.1	10.9	-1.1	7.2	-125	-144.5	-128	-17.7	0.3

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
21/8	MEAN	-397	81.6	-643.8	441.4	445.3	445.3	192.2	192.2	192.2	192.2		
	RMS	457.7	272.6	174.1	202.7	248.9	248.9	471.8	471.8	471.8	471.8		
	1/2 P-P	762.7	460.3	428.9	490.5	565.4	565.4	855.5	855.5	855.5	855.5		
HARMONIC COSINE SINE COSINE SINE COSINE SINE COSINE SINE COSINE SINE COSINE SINE													
1st	-389	-2.7	-264.5	-18.2	-117.9	-72.5	-132.9	-83.7	-143	-95.6	-352.7	-190	
2nd	-4.8	32.8	-7.8	19.6	-37.3	2.1	-44	2.2	-46.7	1.5	-139.6	-9.8	
3rd	403.2	-271.5	223.9	-141.8	-134.4	65.6	-160.5	77.7	-215.3	121.1	-449.9	209.5	
4th	144.8	18.4	80.1	7.3	-47.1	-23.9	-53.4	-26.8	-81.5	-26.8	-111.4	-12.1	
5th	-25.5	-57.6	-10.3	-19.8	16.9	64.4	20.3	74.8	30.2	91.6	5.3	-14.7	
6th	47.3	-17.2	16	-5.6	-56.2	11.5	-65.1	14.4	-72.7	21	52.2	1.2	
7th	16.2	0.4	1.2	-2	-31.1	-10.9	-36.1	-12.1	-35.8	-8	32	28.2	
8th	3.7	-40.3	-3.4	-5.6	-20.2	65.2	-21.8	77.1	-16.4	75.7	46.2	-86.5	
RUN/POINT Flap Bending, in-lb Blade 1, r/R=0.725 Flap Bending, in-lb Blade 1, r/R=0.800 Flap Bending, in-lb Blade 1, r/R=0.900 Flap Bending, in-lb Blade 1, r/R=0.144 Chord Bending, in-lb Blade 1, r/R=0.570 Chord Bending, in-lb Blade 1, r/R=0.570 Torsion, in-lb Blade 1, r/R=0.400													
21/8	MEAN	-34	-278.2	-461.8	-6190.9	-2716.9	-2716.9	-417.1	-417.1	-417.1	-417.1		
	RMS	572.4	647.4	554.9	1667.8	1607.6	1607.6	62.7	62.7	62.7	62.7		
	1/2 P-P	1089	1345.6	1148.9	2782.1	2943.2	2943.2	126.9	126.9	126.9	126.9		
HARMONIC COSINE SINE COSINE SINE COSINE SINE COSINE SINE COSINE SINE COSINE SINE													
1st	-392.3	-193.8	-287.4	-149.5	-6.5	-18	-2073.4	1040.9	-91.1	346.7	18.8	-15.7	
2nd	-449.4	37	-608.2	58.1	-500.1	47.7	203.9	70.3	231.1	-102.3	-37.1	1.7	
3rd	-379.4	233.3	-404.2	233.6	-409.1	164.3	170.7	74.6	-434.4	-186.5	-64.8	-20.2	
4th	131.3	42.7	295.8	11.9	229.4	-6.8	-137.7	118.9	1772.5	-1196.2	20.8	20.2	
5th	-30.6	-156	36.3	-177.1	208.9	-135.1	103.1	89.4	-209.7	-263.9	-1.3	-14.8	
6th	106.3	-39.1	32	-2.9	21.2	26.4	23.9	-20.9	-61.1	39.4	5.3	-9.1	
7th	33.4	-3.3	-41.8	-30.5	-173.8	-0.1	-0.4	6.7	8.7	-2.8	-1.7	-1.8	
8th	-23.8	36.6	-22.2	114	-61.8	105.8	-149.1	-19.2	157	5.7	-0.3	5.2	

RUN/POINT		Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
		Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	-1042.4	-4647.8	-1030.7	-5050	-2015.8	-769.8					
RMS	383.5	1172.2	376.3	1317.4	1102.7	1082.9					
1/2 P-P	645.9	2015.1	619.4	2314.6	2021.1	2263.7					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	60.6	-76.3	-489.7	-1535.5	53.8	67.6	1754.9	-519.4	1464.4	-407	723.1
2nd	-26.3	-37.8	-73	-51.5	11.5	45.6	131	57.3	125	44.3	182.7
3rd	-302	-393.5	60.3	-131.8	-390.9	293.6	-113.8	-59.7	-84.6	-14.9	84.7
4th	136.7	16.1	-192.7	93.9	145.7	15.2	-1.7	29.6	205.6	-93.4	1070.8
5th	81	-55.8	-117.9	133.4	63.4	63.6	-148.8	-87	-68	-41.2	205.9
6th	-57	17.9	19.5	-6.4	50.8	-14	-37.4	9.5	-31.7	2.3	3.2
7th	1.4	-20.1	29.1	10.9	-17.2	-0.7	32.3	-7.4	28.1	-5.4	-1.6
8th	-0.2	-57	-122.4	-83.3	8.2	-33	-140.2	-97.3	-114.1	-97.1	-73.7
MEAN	-1668.7	-391.8	-862.3	-6212.5	-469.9	-72.1					
RMS	1328.3	55.2	4595.8	1241.4	53	15					
1/2 P-P	2545.4	116.4	8910.6	2147.1	110.6	30.5					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	329.5	-267.5	-15.8	34.9	1087	-3187.6	416.3	1672.2	-21.9	-20.7	-11.5
2nd	186.6	-65.4	-31.6	-5.7	-2517.4	-1929.5	-72.7	-43.9	36.5	6.5	-6.8
3rd	231.3	173.6	55.1	7.2	-1962.3	1796.4	-82	117.7	16.8	-49.1	-10.2
4th	1426.2	-980.2	1	15.5	532.4	2151.3	-68.8	58.6	8.4	17.5	2.9
5th	353.5	293.9	4.4	6.9	1606.9	411	128.1	-126.4	-8.1	5	-0.4
6th	28	-11.2	5.6	-6.4	734.4	-1013.8	11.1	29.8	-4.8	6	0.7
7th	-24.1	3.3	1	2.1	-393.4	-777.3	30.2	0	2.9	1.2	-0.8
8th	53.3	41.9	-2.5	7.9	-516.9	-74.6	-117.7	-84.7	-2.7	7.1	0.2

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	21/7	Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.370	Blade 1, r/R=0.400	Blade 1, r/R=0.440	Blade 1, r/R=0.570	
MEAN	-1022.4	-306.2	-705.5	373.8	388.3	109.2					
RMS	388.2	222	168	196.3	241.6	426.4					
1/2 P-P	662.7	386.2	418.3	487.7	562.2	767.8					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-220.5	-11.6	-157.1	-23.3	-95.1	-66.2	-108	-76.7	-120.1	-86.3	
2nd	22.3	29.7	8.9	1.8	-35.2	2.4	-41.6	2.7	-46.3	2.6	
3rd	384.5	-265.7	214.4	-139.3	-125.1	62.8	-148.8	74.1	-201.3	115.7	
4th	135.9	19.6	74.8	9	-46.5	-21.6	-53.4	-24.4	-79.4	-24	
5th	-39.1	-78.4	-16.9	-28.9	18.5	82.2	22.5	95.6	34	-100.3	
6th	49.2	-16.9	17	-5.3	-57.5	10.3	-66.9	12.9	-74.3	11.2	
7th	16.9	1	3.1	-1.1	-27.8	-10	-31.9	-11.4	-32.7	-7.7	
8th	5.3	-50.4	-2	-8.3	-24.4	78.3	-26.5	92.3	-20.7	91	
RUN/POINT	Flap Bending, in-lb	Flap Bending, in-lb	Flap Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Torsion, in-lb	
	21/7	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.944	Blade 1, r/R=0.970	Blade 1, r/R=0.990	Blade 1, r/R=0.990	Blade 1, r/R=0.570	Blade 1, r/R=0.400	
MEAN	-106.4	-314.8	-409.8	-6710.2	-2716.7	-402.3					
RMS	519.4	578.7	494.1	1237.1	1415.3	58.3					
1/2 P-P	984.2	1196.1	1045.6	2150.5	2688.4	115.7					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-309.5	-168.3	-234.6	-129.9	-7.3	-19.8	-1601.9	600	-100.4	226.8	
2nd	-376.7	26.4	-497.4	44.8	-417.1	38.8	123.7	51.8	198.5	15.3	
3rd	-366.7	234.6	-370.5	226.9	-356.1	159.8	118.5	70.2	-331.8	-83.7	
4th	127.2	43.4	263.3	31.1	211.5	10	-143.1	83.8	1660.3	-151.7	
5th	-37.4	-213.9	14.5	-245.5	165.1	-177.1	119.3	104.2	-901.4	-60.2	
6th	103.7	-34	35.5	-15.8	17	11.9	8.9	-22.3	-42.3	-60.2	
7th	30.2	-4.2	-43.7	-20.5	-158.2	0.5	32.1	22.4	-23.2	-16.2	
8th	-26.2	39.7	-30.7	138.2	-68.1	133.1	-123.9	-75.3	132	14.9	

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	-2359.3		-5636.4		-2379.2		-5931		-2811.9	
RMS	298.6		355.5		305.7		444		373.4	
1/2 P-P	629.1		771.8		658.6		952.6		869	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	24.1	63.5	121.9	-349.3	-112.1	22.4	524.6	140.4	428.8	127.5
2nd	-141.8	-18.3	69.3	-5.8	136.1	29.9	-53.4	16.6	-25.5	7.4
3rd	-215.6	-283.9	43.2	-37.8	-290.9	212.4	-27	-41.7	-26.4	-9.3
4th	97.9	3.4	-136.1	99.5	102	2.4	-0.6	20.8	128.3	-52.6
5th	67.7	-51.7	-109.2	85.6	55.4	67.2	-121.1	-81.9	-58.1	-40.4
6th	-40.6	18.7	15.9	13.6	4.1	-19.4	-11	9.5	-8.3	4.2
7th	5.7	-21.1	15.6	-24	-11.7	-3.6	22.6	-41.2	22.4	-33
8th	-10.7	-76.4	-161.5	-113.8	8.6	-60.9	-175.5	-131	-146.1	-125.2
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Chord Bending, in-lb	Torsion, in-lb	Blade 4, r/R=0.400	Pitch Link, lb	Pitch Link, lb
21/ 6	Blade 3, r/R=0.450	Blade 3, r/R=0.400							Blade 1	Blade 1
MEAN	-1736.3		-356.4		-2202.6		-7208.9		-423.3	
RMS	820.3		49.9		374.9		392.1		44	
1/2 P-P	1516.4		107		1517.1		820.2		93.5	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	114.5	-22.3	-13.8	47.6	73.5	-88.3	-165.7	420.3	-34.7	-16.8
2nd	103.6	-45.8	-29.6	-8.3	-180.1	-92	93.5	2.4	29.9	7.9
3rd	95.4	105.2	35	1.9	145.8	262.4	-61.9	26.4	6.9	-31.7
4th	891.8	-597.3	-6	5.1	37.2	40.6	-59.9	22	-2.3	0.9
5th	254.1	242.5	5	-2.8	-79.9	125.7	131.6	-87.9	0.3	7.3
6th	20.3	-14.8	5	-5.2	10.8	74.5	16.4	8.8	-4.9	5.9
7th	-15	23.6	-2	4.2	64	11.1	26.3	-33.9	3.9	4.6
8th	61.2	61.6	-1.4	9.2	24.5	-130.1	-149.8	-131.2	-1	10.5

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325	
MEAN	-2319.2		-1109.4		-832.1		234.5		273.6		-50.4
RMS	291		159.2		141.7		166		192.8		309.3
1/2 P-P	589.2		295.4		393.8		453.7		493.4		607.4
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-67.7	24.2	-56.4	0.7	-61.7	-47.8	-70.7	-56.1	-78.8	-63.5	-113.8
2nd	150.6	16.1	84.6	11.9	-36.9	2.4	-43.5	2.4	-57.8	2.7	-171.7
3rd	288.6	-189.2	160.7	-98	-89.6	44.8	-106.8	53.4	-144.3	82.7	-309.2
4th	94.5	4.1	51.3	1.2	-37.6	-8.7	-42.8	-9.2	-61.8	-7.2	-64.1
5th	-32.5	-76.7	-14.9	-31	10.7	72.6	12.8	84.6	22.7	104	5.5
6th	39.4	-17.2	14.5	-5.1	-43	14.8	-49.6	18	-55.9	23.3	39.2
7th	13.8	2.8	2.7	-0.2	-20.7	-8.3	-24	-10.3	-24.4	-7.3	25.2
8th	8.3	-59.3	-3.1	-10.4	-33.8	88.8	-37.6	104.6	-29.8	103	70.1
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800	Flap Bending, in-lb Blade 1, r/R=0.900	Flap Bending, in-lb Blade 1, r/R=0.144	Chord Bending, in-lb Blade 1, r/R=0.570	Chord Bending, in-lb Blade 1, r/R=0.400	Torsion, in-lb Blade 1, r/R=0.400				
MEAN	-236.7	-375.6	-303	-7748.8	-2759.9	-363.3					
RMS	375	411.8	352.5	367.9	943.6	46.7					
1/2 P-P	765.3	818	825.9	768.1	1817.8	98.7					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-98.3	-127.5	-67.8	-105	14.1	-33.1	-408.9	-27.9	-53.7	55.4	12.2
2nd	-272.7	39.7	-299.4	58.5	-224.4	43.9	-52.8	10.6	122.8	59.9	-35.7
3rd	-296.1	170.9	-283.8	167.9	-235.2	130.3	24.6	52.8	-152.3	-85.6	-7.9
4th	82.4	16.5	144.3	15.1	119.3	8.4	-125.2	47.1	1148.5	-506.3	-5.9
5th	-8.2	-199.8	21.3	-248.1	87.6	-184.3	80.5	105.3	-149.4	-253.9	-1.7
6th	78.2	-29.8	44.5	-17.2	21.3	-0.8	-14.4	4.6	8.6	-9.6	-5.8
7th	13.7	-6.9	-38.5	-7.1	-95	7.2	24.5	-13.5	-14	7.4	-6.7
8th	-23.3	40.3	-51.8	154.4	-77.8	161.4	-152	-129.8	158.8	114.3	-3.7

RUN/POINT		Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
		Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.174	Blade 3, r/R=0.325	Blade 3, r/R=0.325		
MEAN		-3599.7		-6737.7		-3643.4		-694.4		-3705.7		-1314.1	
RMS		338.5		357		368.4		317		259.7		254.5	
1/2 P-P		596.2		855		643.4		767.7		602		535.6	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	135.3	205.7	247.7	306.3	-273.9	128.8	-167.2	255.9	-155.1	221.2	-57	92.2	
2nd	-389.6	58.8	267.7	-52.7	404.9	-46.4	-278.7	62.7	-205.6	38	-61.3	9.1	
3rd	-71.9	-64	2.4	-10	-59.2	74.6	-11.7	3	-8.9	6.9	18.6	16.9	
4th	45.4	-20.1	-38.3	58.9	45.8	-18.9	-16.5	13.8	35	-24.3	231.6	-206.6	
5th	-27.4	6.3	24.3	-12.7	-2.3	-35.4	6.6	40.3	4	18.5	4.3	-62.5	
6th	-5.5	8.8	2.2	-2	6.9	-11.2	8	3.6	4.6	0.3	5.6	-4.9	
7th	-6.5	-7.1	-1	18.9	-5.4	6.8	0.7	22.8	-2	16.2	-1.1	-0.7	
8th	-5.1	-1.1	-23.3	17.2	-8	2.7	-24	25	-19.1	18	-19.5	20.7	
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb		Pitch Link, lb	
		Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1	Blade 1	Blade 1	Blade 1
MEAN		-1824.8		-310.2		-3462		-8206.4		-363.7		-70.6	
RMS		326.2		48.2		337.6		342.1		41.9		5.7	
1/2 P-P		710.9		90.4		590.2		776.8		81.6		14.1	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	3.8	31.7	-19.1	52.4	-91.1	-173.7	-246.3	-221.9	-43	-22.8	-1.5	5.2	
2nd	13.1	-14.4	-34.4	-12	-413.9	60.2	312.9	-34.7	29.3	10.7	-0.7	-2	
3rd	40.3	19.7	-2.6	-5.6	76.8	66.5	-8.1	13.8	-3.1	-2.5	-1.6	2.7	
4th	315.6	-295.2	-9	2.4	44.2	-18.1	-34.6	7.1	-7.7	0.8	-0.6	-0.8	
5th	-17.5	-93	-5.6	1.5	27.1	-3.8	-28	-7	-1.2	-4.8	0.1	1.4	
6th	-3.1	-11.9	3.3	-1.8	-5.8	9.4	11.9	-9.5	-4.5	1	0.3	0	
7th	-1	-11.8	0.6	0	7.7	5.8	-1.6	19.6	-0.1	-0.1	-0.9	0	
8th	8.5	-12.7	0.7	0.6	-19.6	1	-26.1	18.9	1.7	1	-0.2	-0.6	

		RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
		Blade 1, r/R=0.144		Blade 1, r/R=0.167		Blade 1, r/R=0.215		Blade 1, r/R=0.280		Blade 1, r/R=0.325		Blade 1, r/R=0.570	
MEAN	-3533.1			-1863.5		-947.6		108.9		173.2		-172.4	
RMS	323.5			189.1		66.2		78.2		95		223.4	
1/2 P-P	568.3			330.4		184.8		216.9		235.3		429.9	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	96.3	-89.3	51.3	-65.1	-18.7	-45.9	-20.8	-53.5	-19.6	-55.5	86	-84.8	
2nd	417.8	-62.5	244.6	-30.4	-43.3	7.1	-52.6	8.4	-85.9	14.4	-260.2	25.8	
3rd	69.3	-72	38.8	-36.9	-24.1	22.9	-28.9	27.2	-36.4	38.5	-98	67.7	
4th	43.6	-16.9	23.4	-8.5	-20.8	6.6	-23.5	8.3	-31.9	11.8	-24.7	2.2	
5th	0.2	20.2	0.2	7.9	1.4	-16.1	1.8	-18.3	2.1	-21.1	-4.3	1.6	
6th	5.7	-7	3	-2.5	-5.3	7.5	-6.1	9.1	-7	9.7	0.5	5.9	
7th	6.2	-6.2	2.6	-1.7	-8.9	7.5	-10.3	8.4	-10.3	10	13	-7	
8th	-6.1	-6.3	1	-0.4	10.2	10.5	12.6	13.3	11.4	13.2	-11	-19.2	
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb
21/5	Blade 1, r/R=0.725		Blade 1, r/R=0.800		Blade 1, r/R=0.900		Blade 1, r/R=0.144		Blade 1, r/R=0.570		Blade 1, r/R=0.400		Blade 1, r/R=0.570
MEAN	-323.1		-403		-197.7		-8886		-2848.6		-313.3		
RMS	290.1		282.3		175.6		292.1		337.7		43.1		
1/2 P-P	481.1		555.5		412.1		705.7		763.4		84.7		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	192.6	-90.6	214.5	-75.7	108.7	-31.2	229.3	-125.4	-33.3	15.4	19.7	-42.4	
2nd	-291	65.2	-244.9	74.1	-74.2	47.9	-273.6	49.3	59.8	-28.5	-35	-11.1	
3rd													
4th	-141.8	93.8	-154.4	96.9	-138.2	77.2	13.4	9.5	-56.1	-4.4	-2	4.4	
5th	16.7	-13.6	29.2	-12.7	25.2	-6.3	-37.6	24.4	359.9	-249.6	-7.4	-0.9	
6th	10.9	30.1	16.7	29.3	18.5	19.1	1.6	-31.8	2.5	58.9	4.7	-0.8	
7th	20.1	-15.7	30.7	-20.1	27.2	-16	2.5	-5.1	11	0.8	4.2	-1.3	
8th	1.8	-3.2	-6.7	10.2	-7.2	13.5	-0.8	22.1	5.6	-13.7	0.1	0.4	
	6.5	4.4	14.5	25.1	9.7	32.3	-30.3	17.3	29.7	-19.6	0.4	1.1	

RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	3305.1	-400.1	3465	-1025.4	1617.9	481.8		
RMS	575.8	6934.7	508.3	6017.9	5035.9	3128.3		
	1071	10353.7	995.3	8990	7688	5960.1		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	487.9	150.1	-4754.1	-8513.8	-101.9	321.4	6570.4	-5338.4
2nd	253.1	-31.8	-650.8	-404.6	-260.5	57.7	642.9	541.9
3rd	-309	-425	138.3	-462.2	-451.2	250.2	-346.8	-238.7
4th	180.5	20.9	-285.6	259.1	198.5	23	116.2	164.8
5th	20	-136.5	-45.3	219.5	109	70.4	-123.2	-84.4
6th	-35.8	14.5	49.8	-31.5	36.3	-16.1	-3.1	37.1
7th	27.4	-31.4	41.5	-24.9	-12.3	-24	-9.5	-45
8th	-35.9	40.7	-43.8	164.7	-47.3	-1.9	-43.6	163.2
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Pitch Link, lb
15/32	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1
MEAN	-1359	-418.6	3401	-2315.8	-535.7			
RMS	2641	83.3	562.8	6793.2	114.5			
1/2 P-P	5275.7	162.6	1089	10373.5	264.4			
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	1266.6	-2063.9	-55.2	-10.3	-392.3	-129.3	4801.3	8260.6
2nd	418.7	-33.9	46.1	48.5	317.3	-39.6	-721.6	-403.5
3rd	625.9	622.6	37	-20.9	319.6	445.7	-183.1	383.1
4th	1725.9	-1915.6	46.1	27.7	162.6	24.1	-83.1	107.8
5th	511.5	283.2	-13	23.7	-20.2	153.1	42	-170.1
6th	18.9	-40.5	-10.1	-6.2	-33.5	7	27.9	-35.1
7th	-22.9	30	6.6	1.1	-18.8	28.9	5.4	3.1
8th	31.3	-68	7.1	3.6	-20.2	39.5	-82.3	151.1

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
		Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.370	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570
MEAN	3264.7	2363.2	1242.7	926.3	778.2	664.9	664.9				
RMS	515.5	300.8	137.7	251.4	305.9	593.3	593.3				
1/2 P-P	979.2	562.4	333.7	581.5	706.3	1182	1182				
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-202.3	-143	-167.8	-87.2	-95.8	-134.2	-117.3	-146.1	-138.5	-524	-264.2
2nd	-301.5	146.4	-188.5	83.2	-85.5	29.6	-43.7	1.8	-25.9	-5.5	-103
3rd	467.5	-255.3	256.8	-135.1	-0.6	-20.6	-180.3	65.8	-246.5	105	-532.5
4th	161.1	-12.8	90.5	-9.6	19.8	-18.9	-51.4	-21.1	-77.4	-17.5	-150.8
5th	-169.3	-61.9	-68.3	-21.8	52.2	38.6	165.4	95.1	205.6	106.4	12.5
6th	30.6	-10.2	11.5	-1.9	-16.5	5.8	-38.4	11.9	-40.2	15.9	-22.8
7th	24.5	22	2	3.9	-26.9	-25.7	-48.9	-49.7	-51.2	32.6	-5.1
8th	-22.2	4.9	-0.6	12.7	31	24.3	54.1	25.3	52.6	41.6	63.5
MEAN	368.3	-172.3	-763.4	-2411.5	-2632.7	-453.5					
RMS	849.5	952.4	684.9	6192.2	2267.5	137.4					
1/2 P-P	1794.2	1960.9	1382.9	964.5	4730.8	366.4					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-699.2	-231.5	-425	-104.6	-61.3	1.5	-7307.2	4725.7	-556.8	1333.2	72.8
2nd	-697.4	-105	-1012.4	-128.1	-724.6	-38.3	721.4	141.9	435.6	-83.8	80.3
3rd	-412.9	131	-504.3	75.1	-538.6	-0.2	409.5	184.4	-808.1	-575.4	-11.7
4th	57.4	81.4	297.4	95.4	188.7	54.1	-204.1	21.4	2255.1	-1166.5	124.1
5th	-387.1	-187.8	-413.4	-174.1	-69	-92.1	201.4	30.1	-523.7	-217.5	0.7
6th	75.7	-24.8	-9.2	0.7	-31.7	48.5	-50.6	10	108.8	-6.5	-27.3
7th	27.6	21.7	-29	-51.2	-166.2	-64.7	57.9	44.8	-6	-52.2	-0.6
8th	17.4	31.1	74.2	28.7	83.7	-33.2	-65.2	154.7	62.5	-176.8	7.4

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144		Flap Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.174		Chord Bending, in-lb Blade 3, r/R=0.325								
		15/31	MEAN	RMS	1/2 P-P	1733.6	-1987.2	4231.7	6435.1	1880.5	-2864.5	4226	6485.9	-16.1	-220.3	2270.6	4710	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	
1st	179	-170.6	-2495.3	-5402.5	209.3	166.4	5229.4	-2817.6	4400.2	-2301.1	2182.2	-1528.6						
2nd	36.8	-90.9	-344.4	-147.8	-65.3	71.8	382.9	251.4	344.3	208.2	360.4	54.7						
3rd	-257.1	-429.1	137.1	-347.1	-447.5	251	-319.8	-126.7	-221.7	-48.3	202.2	285.2						
4th	163.6	32.1	-224.1	32.6	175.6	50.2	51.2	91.5	312.6	-60.9	1446.5	-748.6						
5th	-14.9	-140.2	-67	192.5	148	16.2	-240.4	-9.3	-103.9	5.4	424.1	136.7						
6th	-59.9	5.5	51.7	-14.1	51.8	7	-27.3	55.4	-18.2	38.3	12.7	-11						
7th	25.1	-34	-13.4	-17.3	-9.3	-17.7	-12.1	-53.8	-4.2	-48.5	-14.9	-25.5						
8th	3.7	-10.5	-26.4	-14.1	-7.9	-3.3	-44.1	-32.3	-37.5	-32.7	-21	-26.3						
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400		Flap Bending, in-lb Blade 4, r/R=0.400		Chord Bending, in-lb Blade 4, r/R=0.144		Torsion, in-lb Blade 4, r/R=0.400		Pitch Link, lb Blade 1								
15/31	MEAN	-1660.5	-438.4	1914.4		-3828.8		-534.6		-52								
	RMS	2082.6	53	431.4		4226.2		61.5		27.2								
	1/2 P-P	4320.2	123.9	763.7		6501.6		122.3		50.1								
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	
1st	1026.1	-1195.4	-32.6	0.9	-116	184.8	2463.9	5412.5	12.6	-49.3	-28.9	21.2						
2nd	357.4	-50.1	-16.2	17.8	56	-87	-322.9	-212.8	13	-12.1	-5.5	4						
3rd	501.4	407.3	38.5	14.1	240.9	441.8	-156.2	302.3	22.1	-32.2	-4.7	-3.2						
4th	1912.9	-1195.1	20.2	38.9	178.4	42.1	-51.1	104.4	28.9	44.8	4.5	8.3						
5th	700.5	135.2	-6.2	7.4	20.1	145.2	108.7	-192.8	-4.8	-6.3	3.6	0						
6th	30.2	-43.4	2.1	-7.8	-52.6	-4	54.8	-1.9	-2.1	7.4	0.2	-1.7						
7th	-12	38.5	5.3	4	-22.3	33.2	11.5	-20	4	-0.9	0.7	-1.7						
8th	24.9	8.1	-0.4	2	7.8	-5.3	-34.6	-32.4	-1.3	2.5	-0.5	0.4						

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb							
		Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.570	Blade 1, r/R=0.570	
MEAN	1860.7	1492	891.6	767	652.2	499.1	499.1	499.1	499.1	499.1	499.1
RMS	472.9	288.6	140.6	222.9	271.2	557.5	557.5	557.5	557.5	557.5	557.5
I/2 P-P	846.2	548.6	322.1	479.9	583.5	1039.3	1039.3	1039.3	1039.3	1039.3	1039.3
HARMONIC											
1st	-372.9	-147.2	-266.2	-102.8	-134.7	-98.7	-147	-118.8	-155.6	-137	-487.6
2nd	-82.4	57.6	-55.7	33.5	-46.2	11.2	-50.5	1.6	-50.3	-1.1	-163.8
3rd	431.7	-219.8	236.8	-113.1	-2.7	-17.2	-170.2	62	-233.3	97	-485.8
4th	160.5	44.4	88.8	23.2	12.2	-7	-60.7	-31.9	-89.9	-36.3	-123.4
5th	-93.7	-34.1	-37.4	-10.2	29.9	26.6	95.2	61.8	118.7	69.8	7.6
6th	44.4	3.7	15.3	1.4	-22.6	-7	-53.7	-13.6	-60	-10.1	35.6
7th	14.1	8.9	-0.3	-1.9	-18.6	-21.5	-31	-36	-32.8	-31.2	23.8
8th	3.7	9.9	0.8	2	-1	-8	-0.8	-18.1	-0.9	-17.5	-2.2
RUN/POINT											
15/31	Flap Bending, in-lb	Blade 1, r/R=0.725	Flap Bending, in-lb	Blade 1, r/R=0.800	Flap Bending, in-lb	Blade 1, r/R=0.900	Flap Bending, in-lb	Blade 1, r/R=0.900	Chord Bending, in-lb	Blade 1, r/R=0.144	Torsion, in-lb
MEAN	242.2	-168.8	-641	-4096.9	-2809.3	-447.4					
RMS	772.6	886.3	690	4226.4	2085.5	65.3					
I/2 P-P	1546	1744.9	1500.4	6497.7	4232.8	139.5					
HARMONIC											
1st	-585	-300.1	-387.8	-195.4	-24.2	3.6	-5271	2739.6	-377.7	897.3	32.1
2nd	-711.7	-14.7	-974.8	-30.9	-733.2	-27.9	385.6	185.1	343.8	-136.8	-20.3
3rd	-359.6	105.7	-445.9	75	-502.5	12.8	320.3	172.2	-643.3	-459.2	-48.7
4th	142.6	71.8	395.7	70.5	301	27.1	-225.8	4.2	2483.1	-701.1	29.4
5th	-231.3	-113.6	-215	-70.3	70.5	5.3	203.6	52.5	-460.3	-242.6	8.3
6th	112.5	0.8	11.7	2.9	-23.4	37.8	-45.1	14.7	8.7	22.8	4.3
7th	19.8	23.3	-4.9	-57.5	-151.7	-95.4	6	27.2	38.2	-23.3	-3.8
8th	9.2	-10.2	-13.2	-16	-5.4	-57.1	-20.6	-35.6	32	36.6	1.1

RUN/POINT		Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
		Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325				
MEAN	284.6		-3412.5		398.6		-4065.3		-614.9
RMS	403.7		2889		389.5		2913.3		1707
1/2 P-P	689.7		4440.6		646		4611.3		3475.4
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	216	32.9	-1457.8	-3786.1	-16.7	171.1	3783.2	-1566	3161.6
2nd	32.6	-59.7	-183.1	-136.8	-34.2	47.6	163.7	199.6	152.1
3rd	-256.3	-423.2	86.8	-254.7	-425.3	231.4	-240.3	-78.9	-176.5
4th	142.9	33.2	-211.9	34.3	158	46.8	51.3	86.1	287
5th	-5.6	-54.8	-60.5	136.8	69.1	-7.4	-131.8	-76.6	-50
6th	-45.2	8.6	20.8	13.7	50.5	-2	6	6.1	4.2
7th	8.9	-19	6.5	12.5	-13.6	-5.6	-2.5	10.1	-3.9
8th	-3.1	-24.9	-118.9	-54.7	4.2	-19	-132.3	-51.5	-119.2
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Torsion, in-lb	Pitch Link, lb
15/30	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1	Blade 1
MEAN	-1752.8		-431.9		490.6		-5277		-72.3
RMS	1726.9		54.7		405.9		2910.4		16.8
1/2 P-P	3526.3		127.7		688.1		4540.6		32.9
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	784.3	-687.2	-28	13.1	-147.5	7.9	1444.1	3828.2	-0.2
2nd	239	-29.8	-30.6	1.8	38.4	-54.2	-178.3	-177.4	25.8
3rd	337.9	342.1	50.4	19.5	259.5	447.4	-104.5	235.2	29.4
4th	1752	-1135.7	13.9	26.7	161.7	44	-32.1	62.6	20.5
5th	409.7	190.2	-4.6	7.7	6.3	49.5	86	-125.2	-7.7
6th	-21.8	-16.5	3.5	-7.7	-51.3	-0.2	26	3.4	-3.4
7th	-14.2	-6	3.3	1.7	-7.3	24.9	1.1	32.4	2.1
8th	51.4	26.4	-2.7	4.5	1.1	-31.9	-122.6	-72.1	-2.5

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	15/30	Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.570	Blade 1, r/R=0.570	
MEAN	412.3	591	521.4	596.2	511.9	287.3					
RMS	377.5	219.1	103.5	195.8	245.7	496.7					
1/2 P-P	657.2	425.9	221.6	445.1	512.9	926.6					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-127.8	-162.6	-109.3	-116	-72.3	-97.1	-112.6	-107.6	-128.6	-120.6	
2nd	-47.8	49.3	-34.4	29.2	-34.8	7.6	-42.7	0	-43.3	-2.6	
3rd	409.8	-202.6	223.3	-104.1	-7	-16	-169.6	57.2	-234.4	91	
4th	141	46.9	76.9	22.6	9.2	-11.1	-56.8	-37	-84.1	-41.3	
5th	-50	-31.2	-21.9	-8.5	11.6	21.5	44.4	52.7	56.9	62.9	
6th	42.4	4.5	12.7	3.6	-26.6	1.3	-59.3	-3.6	-66.6	-0.7	
7th	10.1	4.5	-0.9	-2.7	-15.4	-15.1	-26.1	-23.6	-28.7	-19.2	
8th	11.5	-10.8	-2.8	-1.1	-21.3	12.5	-33.8	21.8	-28.3	20.8	
RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Torsion, in-lb						
15/30	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.400	Blade 1, r/R=0.400	
MEAN	52.4	-244.3	-522.8	-5659.9	-2832.9	-441.2					
RMS	631.4	725.1	607.2	2914.2	1861.5	64.7					
1/2 P-P	1206.8	1456	1213.7	4510.4	3459.4	139.8					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-454.8	-260.2	-324.9	-199.6	-14.8	-16.7	-3803.4	1509.2	-336.2	530.4	
2nd	-527.2	-17.6	-736.2	-15.6	-59.4	-9.6	182.3	165.7	245.4	-85.3	
3rd	-391.8	169.4	-439.1	165	-46.3	88.5	236.9	96.6	-503.1	-370.9	
4th	141.9	63.2	343.9	61.2	267.4	29.6	-201.9	49.9	2281.1	-802.9	
5th	-96.9	-105.5	-45.6	-91.2	175.2	-25.2	122.9	100.2	-284.1	-299.4	
6th	110	-4.2	20.3	10.1	-1.2	36.8	-11.4	-31	-13.5	6.5	
7th	29.7	9.9	-17.5	-50	-164.5	-68.5	16.7	42.9	45.9	-5.4	
8th	-28.5	9.7	-43.5	38.2	-64.2	6.9	-125.9	-79.2	13.8	-38.8	

RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	-413	-4067	-326.3	-4720.5	-1686	-843.3		
RMS	403.9	1964.7	407.4	2090.4	1745.1	1374.8		
1/2 P-P	708.2	3134.4	711.5	3438.5	2959.7	2972.3		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	212	-105.5	-1087.3	-2519.6	100.8	189.4	2658.2	-1224
2nd	-10.2	-41.6	-146	-97.8	-13	42.7	180.6	139.5
3rd	-260.9	-421.8	80.3	-186.9	-431.7	252	-173	-81.9
4th	129.6	28.7	-229.7	35.9	147.5	44	36.9	87.1
5th	11.3	-33	-65.6	140.3	70	12.8	-162	-61
6th	-44.8	3	21.7	21	50.1	2.3	-7.4	5.9
7th	5.1	-22.2	19.1	-22.3	-18.7	-4.6	29.9	-38.2
8th	-1.4	-22.2	-122.2	-63.9	6.3	-41.6	-134.3	-79.1
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Pitch Link, lb
	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1
MEAN	-1823.2	-420.4	-198.1	-5918.2	-500	-500	-77.6	
RMS	1518.9	55.3	414	2001.2	51.6	51.6	15.6	
1/2 P-P	3007.2	119.1	719.8	3272.1	111.6	111.6	29.2	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	528.7	-535.8	-23.1	24.2	-152.2	146.9	1069.7	2589.9
2nd	240.5	-36.1	-31	-3.3	-12.8	-49.6	-154.5	-120.4
3rd	286.8	280.4	55.9	16	271.6	439.6	-110.4	170.9
4th	1557.6	-1077.2	3.8	20.2	146.6	39	-49.2	81.6
5th	412.6	213.1	-1.6	7.4	35.1	84.2	-133.1	-6.1
6th	-11.4	-2.2	4.9	-6.5	-47.3	-2.1	10	18.3
7th	-19.8	19.6	2	2.5	-3	25.6	7.4	-8.5
8th	56.9	36.4	-3.7	5.6	-2.9	-24	-120.3	-99.3

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
		Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325
MEAN	-276.4	162.1	344.9	515.7	446.9	187.1					
RMS	413.2	245.9	112.4	190.3	237.2	458.7					
1/2 P-P	738.3	461.9	219.2	461.7	536.6	819.6					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-276	-146.5	-194.8	-108	-109.1	-90.8	-120.3	-100.7	-131.7	-111.7	-335.7
2nd	-3.9	29.7	-7.8	17.6	-26.1	4	-44.7	-0.3	-49.1	-1	-149.4
3rd	412.7	-217	226.8	-112.3	-0.3	-17.6	-160.7	58.1	-224	94.1	-449.8
4th	135.2	41.2	74.8	20.7	10.2	-9	-50.4	-31	-76.4	-33.3	-109.1
5th	-29.1	-30.4	-13.3	-8.8	4.7	19.7	23.3	49.9	31	59.6	8.9
6th	46.8	4.6	15.5	3.5	-25.2	-2.8	-60.8	-5.8	-68.5	-2.7	-19.8
7th	17.9	-0.1	5.6	-5.3	-11.7	-15.8	-26.6	-22.6	-30.7	-16.9	47.7
8th	21.3	-9.7	-1.6	-1.4	-31.7	9.5	-51.8	15.5	-45.5	16.4	12.2
										63.1	34.5
											-7.4
RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
		Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.400	Blade 1, r/R=0.400
MEAN	-33.6	-286.7	-465.5	-6377.5	-2857.3						
RMS	566.4	641.5	551.9	1983.1	1653.9						
1/2 P-P	1069.4	1287	1113.2	3223.9	3082.6						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-375.7	-214.8	-274.2	-161.5	-5.4	-11.5	-2541.2	1105.1	-194.7	385.5	22.9
2nd	-465.6	-6.4	-627.3	-3.2	-516	-1	156.2	124.7	236.3	-82.8	-37.5
3rd	-394.8	185.1	-429.2	178	-433.1	104.9	179.6	84.7	-412.9	-300.9	-60.7
4th	126.4	65.2	291.9	72.6	228.9	43.1	-188.5	57.2	2029.7	-799.1	17.1
5th	-44	-98.8	22.2	-87	198.7	-29.2	125.2	98.5	-252.9	-279.8	24
6th	103.8	3.5	27.5	14.3	16.1	34.2	-12.2	-19.1	-12.9	37	-10
7th	36.5	5.3	-26.1	-42.9	-159.4	-55.8	7.9	10.2	-0.7	-9.1	-6.3
8th	-35	8.8	-68.5	31.1	-104.9	5.6	-116.7	-97.8	132.8	88.2	-3.2

RUN/POINT		Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb
		Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.174
MEAN	-1061	-4585.7	-986.4	-5260.2	-2171.5	-1022.8			
RMS	445.1	1434.1	428.7	1533.2	1280.3	1174.5			
1/2 P-P	743.2	2444.6	728.8	2716.1	2330.5	2502.7			
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	308.6	-82.7	-950.3	-1739.1	68.9	272.9	1868.6	-1022.4	1569.2
2nd	-27.8	-63.3	-94.6	-55.3	11.8	57.1	121.2	90.4	119.3
3rd	-267.1	-427.5	73.9	-128.1	-426.7	250.6	-108.4	-84.1	-79.7
4th	136	36.3	-229.4	55	152.3	42.3	24.1	69.7	232.3
5th	59.7	-69.5	-101.4	162.5	75.1	47.7	-184.7	-110.3	-89.1
6th	-54.6	13.3	23.1	7.1	56.9	-9.6	-4.9	6.2	-2.8
7th	8.1	-16.3	-10.1	15.5	-18.8	-2.5	9.1	4.5	4.1
8th	11.9	-54.1	-130.4	-155.6	11.3	-53	-140.4	-177.3	-115.1
RUN/POINT		Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Pitch Link, lb
		Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 4, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 1	
MEAN	-1874.5	-406.3	-828.2	-6433	-481	-481	-481	-81.3	
RMS	1397.6	54.6	430.4	1412.2	48.9	13	13	13	
1/2 P-P	2762.7	116.6	739.3	2510.9	105	28.2	28.2	28.2	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	368.4	-435.8	-17.9	35.1	-227.5	156	909.4	1735.5	-20
2nd	195.5	-34.8	-28.7	-6.3	-41.2	-58.3	-99.8	-70.9	29.7
3rd	227.8	243	55	10.4	265.5	428.2	-94.6	113.6	19.9
4th	1499.1	-932.7	-2.7	12.5	151.9	39	-47.2	66.1	6
5th	426.6	324	2.2	5.2	-36.2	57.2	125.9	-155.4	-5
6th	-5.7	-10.1	7.2	-6.5	-54.8	6.2	22.9	9.6	-7.1
7th	-8.7	-3.5	0.3	2	-2.8	20.6	-16.7	22.8	1.3
8th	55.6	68.6	-4.7	7.6	4.9	-48.2	-117.9	-182.7	-3.9

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
		Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.570	Blade 1, r/R=0.570	
MEAN	-917.4	-236.4	181.5	442.9	388.3	96.7					
RMS	429.4	253.1	121.6	202.3	246.8	436.1					
1/2 P-P	741	473.4	256.9	489.9	572.8	786.1					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-250.7	-220.9	-174	-152.1	-100.6	-104.1	-109.1	-98.8	-120	-105.1	
2nd	13	43	2.4	26.3	-20.5	7.1	-40.3	-0.1	-45.9	-1.6	
3rd	418.2	-215	231	-111.5	4.7	-17.8	-155	55.8	-218.4	89.9	
4th	137.3	44.6	75.9	22.8	9.9	-8.9	-51.4	-32	-77.9	-36.1	
5th	-48.8	-69.9	-21.5	-24.7	6.3	35.5	34.1	92.5	46.8	110.5	
6th	54.7	-6.8	18.7	-1.6	-28.5	-0.1	-70.2	2.4	-78.6	7.6	
7th	15	3.1	5.4	-3.7	-7.8	-16.5	-19.9	-26	-23.1	-20.5	
8th	22.1	-39.7	-3.1	-5.9	-40.3	40.9	-65	72.4	-54.4	71.5	
RUN/POINT	Flap Bending, in-lb	Flap Bending, in-lb	Flap Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Torsion, in-lb	
15/28	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.400	Blade 1, r/R=0.400	
MEAN	-116.6	-333	-419.1	-6946.9	-2875.4	-415.1					
RMS	531.7	588.2	495.1	1442.7	1518.7	58.5					
1/2 P-P	1018.7	1189.1	1050.6	2468.3	2886.5	122.1					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-303	-205.8	-228.9	-164.3	-6.9	-29.3	-1768.7	919.8	-132.6	301.2	
2nd	-374.3	4.7	-497.4	13.7	-422.7	10.6	112	80.8	199.9	-59.3	
3rd	-411.8	193.1	-415.5	189.3	-386.9	125	123.7	77.2	-339.4	-257.4	
4th	131.7	59.6	267.8	69.6	215.7	45.9	-177.9	44.7	1877.3	-659	
5th	-57.6	-201.8	-8.8	-224.5	147.3	-137.6	157.9	144.1	-300.2	-387.9	
6th	112.4	-8.6	46.6	-0.6	21.4	20.6	-7	-21.1	-11.7	25.8	
7th	35.3	-3	-24.6	-41.8	-139.6	-48.7	-26	44.4	28.3	-39.1	
8th	-41.2	29.5	-86.2	109.9	-119.8	93.7	-118.2	-184.7	132.7	169.1	

RUN/POINT		Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
		Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.174	Blade 3, r/R=0.325	Blade 3, r/R=0.325	
MEAN	-2414.9		-5536.8		-2365.1		-6228.5		-3048.9		-1360.3		
RMS	357.5		371.7		340.1		388.8		325.1		607.6		
1/2 P-P	688.8		802.8		679.3		902.4		803.2		1139.1		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	265.3	-101.2	-328.5	-285	64.9	224	310.5	-340.7	267.3	-269.5	120.9	-220.8	
2nd	-145.8	-12.7	30	-28.6	140.3	4	-51.8	64.7	-25.4	49	70.9	-0.9	
3rd	-185.1	-311.8	48	-30.1	-320.3	173	-6.3	-52.3	-7.1	-11.5	58.2	103.4	
4th	99	13.4	-137.6	49	104.1	19	6.1	45	136.5	-27.6	695.7	-331.4	
5th	58	-26.1	-98.4	72.3	32.7	60.7	-99.2	-125	-48.7	-67.2	96.3	188.1	
6th	-38.7	10.6	18	13.3	42.9	-8.1	-2.8	4.6	2.1	3.1	3.1	-0.8	
7th	7.8	-16.3	-4.3	-24.3	-13.2	-5.2	0.7	-29.2	0	-26.9	-4.4	-21.8	
8th	24.3	-68.5	-56.3	-152.6	28.8	-70.3	-60	-167.2	-45.8	-146	-17	-86.5	
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb			
15/27	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 4, r/R=0.400	Blade 1	Blade 1	Blade 1	
MEAN	-1974.5		-368.3		-2154.8		-7381		-430.7		-81.6		
RMS	825		52		357.8		301.5		42.8		11.2		
1/2 P-P	1570.6		109.7		672.1		698.9		90.1		26.6		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	47.7	-175.5	-16.6	49.5	-187.6	189.4	284.5	146.7	-34.2	-20.9	-11.7	2.4	
2nd	103.1	-25	-30.5	-7.1	-161.1	-7.6	46	-36.2	27.8	8.9	-4.3	-1.1	
3rd	106.2	132.4	36	5.3	176.2	315.7	-60.6	18.3	10.1	-27.6	-8.2	-0.3	
4th	920.1	-539	-11.5	2.1	110.1	19.4	-35	39.6	-6.4	-0.3	1.2	-1.4	
5th	197.6	302.1	4.2	-2.3	-57.7	25.9	127.3	-57.6	0.1	5.7	-2.2	0.4	
6th	6.1	-6	6.1	-4.3	-48	9.4	18.4	3.4	-6.5	4.2	1.2	-0.7	
7th	0.4	15.6	-2.9	2.4	-7.8	17.2	-10.8	-16.3	1.3	3.3	0	0.8	
8th	23.5	72.9	-4.4	7.2	11	-89.9	-41	-170.9	-3.6	9.1	-0.4	0.5	

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
		Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.570	
MEAN	-2256.9	-1069.4	-161.9	291	267.7	-65.8					
RMS	364.8	217.4	117.5	169.4	193.1	316.3					
1/2 P-P	655.4	409.5	269.2	456.6	494.3	626.3					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-269.7	-181.3	-176.9	-128	-99.4	-85.2	-85.9	-78.2	-88	-82.5	
2nd	142.7	0.8	80.3	3.3	7.6	0.5	-40.3	2.6	-56.1	4	
3rd	313.8	-145.6	173.8	-74.7	7.9	-11.7	-108.7	37.9	-154.3	61.9	
4th	96.6	23.6	51.9	13.3	3.8	-3	-40	-13.8	-58.9	-13.8	
5th	-4.6	-68	-3.2	-25.4	-8.2	26.8	-11.3	75.5	-9.1	93	
6th	42.3	-6.2	16.3	-0.7	-17.6	2.4	-48.8	6.1	-55.2	9.9	
7th	15.6	3	6.7	-0.7	-5.1	-8.4	-16.3	-14.7	-20.4	-11.8	
8th	33.7	-44.5	0.9	-7	-48	42.4	-81.4	75.8	-71.1	75.2	
RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
15/27	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.400		
MEAN	-237.8	-388	-307.5	-7989	-2912.9	-373.6					
RMS	379.2	414.7	358.6	321.9	914.5	47.3					
1/2 P-P	774.7	849.5	870.5	664.9	1742.9	99.5					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-97.6	-147	-63.9	-124.6	19.2	-36.9	-208.1	263.9	-8.6	120.9	
2nd	-282.6	30.1	-310.4	43.5	-233.3	26	-41.8	48.9	118.7	-36	
3rd	-318.9	137.4	-306.8	139.6	-252.9	106.2	19	52.2	-163.4	-144.3	
4th	76.4	29.5	138	40	117.1	33.4	-107.9	26.5	1131.4	-384.9	
5th	50.1	-173.9	94.7	-210.8	140.5	-141.7	52.5	140.8	-82.9	-317.6	
6th	80.9	-9.9	47.6	-6.5	24	0.7	-22.1	-3.6	24.6	2.3	
7th	20.9	-6	-26.7	-21.5	-87.8	-25	-15.3	-5.2	19.9	4.9	
8th	-37.9	25.5	-119.2	111.8	-149.6	112.6	-41	-176.4	53.8	169.1	

RUN/POINT		Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
		Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.174	Blade 3, r/R=0.325		
MEAN		-3650.9		-6291.4		-3610.4		-6974.5		-3717.1		-1617.4	
RMS		310.3		447		315.7		475.6		388.3		269.8	
1/2 P-P		511.4		879.4		552.9		935.2		716.8		576.7	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	52	-33	136.2	546.2	-17.4	17.1	-562.2	131.2	-471.5	105.4	-245.6	29.5	
2nd	-416.8	12.5	242.8	-1.1	428	-17.6	-305.4	30	-223.7	13.7	-67.6	-7.8	
3rd	-59.7	-83.4	2.2	-13	-85.7	59.8	-3.3	-8	0.7	3.8	37.5	41.9	
4th	50.7	-3.4	-34.2	22.9	51	1.9	-4.5	22.7	41.2	-6.1	232.6	-115.9	
5th	-14.5	-12	8.7	10.9	15.6	-11.8	-31.9	13.6	-18.8	4.7	37	-14.1	
6th	-12.9	4.4	14.1	2.7	9.9	-8.4	1.4	-7.3	4.4	-6.7	-6	-2.9	
7th	-0.6	-13.6	30	6.2	-13	3.6	27.7	2.7	20.1	0.3	-5.6	-8.9	
8th	-17.8	-11.2	-37.2	-10.2	-16.9	-14.4	-33.8	-14.6	-30.1	-12.1	-11.9	-7.1	
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb			
		Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 4, r/R=0.400	Blade 1	Blade 1		
MEAN		-2062.7		-325.5		-3361.8		-8120.9		-377.8		-76.2	
RMS		292.9		49.8		328.2		537.5		41.4		10.1	
1/2 P-P		588.8		89.6		519.8		1016.5		78.3		22.7	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-122.3	1	-16.4	55.9	4.2	108.4	-143.6	-673.9	-44.1	-20.7	-12.3	3.6	
2nd	11.9	-14.4	-33	-16.2	-430.9	19.7	284.4	-2.2	26.1	15.2	-1.1	-2.3	
3rd	52.5	36.9	4.5	-5.4	60.9	97	-3.3	5.4	-1.9	-4	-4.1	1.3	
4th	311.5	-194.9	-8.7	1.4	48.8	3.6	-23.2	11.8	-5.9	-0.6	-0.3	-0.8	
5th	61.8	-31.5	-5	-1.8	8.6	14.8	-7.4	-19	2.2	-3.8	-0.9	-0.2	
6th	0.8	2.7	3.4	-0.6	-15.5	10.3	-3.5	-14.8	-4	0.1	0.6	-0.1	
7th	-14.5	4.2	0	0.2	2.1	14.7	16.3	11.7	0.1	0.4	-0.8	-0.2	
8th	17.1	8.6	0.3	1.6	-21.9	-14.6	-34.9	-15.4	0.9	1.7	0.6	-0.5	

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
15/26	1/2 P-P	MEAN	-3474.3	-1823.2	-469.7	158.9	165.3	-183.5					
RMS		343.5	202.5	78	82.8	97.6	223.2						
		582	347.4	159	236.8	256.6	423.7						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-198.1	19.2	-127.4	-2.7	-72.5	-24.9	-50.3	-43.5	-39.6	-51.4	67.5	-84.6	
2nd	424.9	-24.5	247.7	-7	61.8	-1.7	-50.2	6.2	-86.5	8.8	-264.1	-4.6	
3rd	95.7	-50.4	52.5	-24.4	0.4	0.5	-36	21.7	-46.4	30.4	-118	41.4	
4th	45.3	2.5	23.6	2.5	-2	1.3	-24.8	3.1	-33	4.7	-26	-8.3	
5th	-12.8	3.7	-4.9	1.8	4.7	0.4	13.1	0.8	16.5	0	-5.1	-1.7	
6th	17.9	-4.2	8.1	-0.8	-4.2	3.4	-16	7.6	-16.9	8.7	5.7	-6.5	
7th	14.5	-3.5	5.8	-1.2	-6.6	-0.9	-19.1	-0.3	-22	2.9	21.5	5.2	
8th	-7.4	-12.2	-0.5	-1.8	7.6	13.1	12	23.9	12.3	21.2	-4.7	-28.2	
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Flap Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Chord Bending, in-lb Blade 1, r/R=0.400			
15/26	1/2 P-P	MEAN	-316.7	-406.6	-197.1	-8808.4	-2983.9	-328					
RMS		289.4	282.1	179.3	511.6	307.9	424.4						
		488.1	541.1	423.3	982.8	709.5	77						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	179.5	-86.5	205.6	-72.1	110.3	-27.1	612.4	-218.1	35.3	-4.4	17	-43	
2nd	-302.9	29.3	-260	41.6	-88.6	35.1	-277.5	14.1	59.9	-28	-33	-14.7	
3rd	-164.5	56.9	-176.2	57.4	-152.8	45.2	8.4	6.3	-65.2	-36.3	-7.1	2.9	
4th	17.7	-9.5	29.5	-6.5	21.8	-2.4	-31	2	372.2	-106	-1.9	-0.7	
5th	-13.2	-2.5	-6.5	-5.4	6.8	-1.2	22.8	-4.3	-46.1	2.4	3.1	1.8	
6th	32.7	-7.6	40.9	-4.8	33.8	-1.7	-12.9	4.1	21.3	-10.6	4.2	0.2	
7th	5.6	-2.5	-20.8	0.3	-27.5	3.1	21.9	22.1	-19.4	-26.2	0.2	-0.4	
8th	6.6	7.7	6.9	34.4	-5.9	37.7	-37.3	-14.5	39.5	11.1	0	1	

RUN/POINT		Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
		Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.174				
MEAN	-278.7	-4265.6	-180.7	-4592.2	-1515.7	-407.8			
RMS	488.1	2533.8	481	2655.6	2209.9	1650.4			
1/2 P-P	921.5	3983.2	911.6	4241.5	3672.4	3407.1			
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	376.3	143.8	-1462.8	-3233.8	-140.4	343.8	3354	-1625.9	2803.9
2nd	11.8	-51.9	-133.1	-159.9	-43.4	65.1	173.7	192.5	162
3rd	-312	-420.2	66.9	-209.9	-426.6	299.1	-203	-59.1	-152.4
4th	144.9	20.1	-244	71.6	172.5	34.3	64.9	84.9	291.8
5th	39.2	-89.6	-107.6	174.8	94.4	22.4	-155	-103.8	-60.8
6th	-55.3	15.4	22.3	1.4	62	-8.6	-21.4	0.2	-15.9
7th	10.1	-15.9	-20.9	13.3	-20	-8.3	-0.5	11.1	0
8th	-2.5	-42.2	-125.8	-86.3	1	-40.8	-142.4	-107	-120.5
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Torsion, in-lb	Pitch Link, lb
15/ 5	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 1	Blade 1
MEAN	-1551.7	-419.8	-55.9	-5881.9	-499.5	-78			
RMS	1737.9	54.6	451.6	2556	53.1	12.8			
1/2 P-P	3585.5	123.1	783.8	4079.8	111.9	27.4			
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	722.8	-655.7	-26.1	20.1	-293.2	-73.1	1421.5	3295.1	-5.9
2nd	243.9	-34.9	-26	-1.3	-6.6	-58.8	-132.8	-165.3	31.4
3rd	279.9	310.9	58.6	5.7	307.4	426.3	-76.8	199.6	22.1
4th	1676.3	-1315.7	8.2	20.1	163.2	23.8	-48.8	72.9	14.8
5th	459.7	279.9	2	6.1	-15.7	70.5	113.7	-153.2	-6.8
6th	12.7	-4.1	6.2	-7.7	-49	6.4	22.3	19	-5.7
7th	-9	-16.7	1.3	1.1	-3.6	20.4	-11.2	9	1.6
8th	62.6	44.2	-4.4	7	-4.4	-24	-140.2	-113.1	-1.8

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
15/ 5	MEAN	-134.4	249.6	384.3	542.1	465.7	210.9						
	RMS	420.4	241.3	116.8	211.2	260.9	469.2						
	1/2 P-P	705.6	445.1	244.1	525.9	604.4	816.1						
	HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st		-18.9	-295.7	-40.4	-195.2	-47.5	-125.4	-105	-110.4	-127.6	-116	-324.3	-205
2nd		-39.5	43.2	-29.6	26.2	-33.9	8.2	-44.4	1.3	-47	1.2	-171.6	-25
3rd		400.7	-256	219.6	-133.7	-5.8	-18.3	-164.8	72	-228.3	114.5	-445.2	192.4
4th		153	30.2	84.2	14.6	7.6	-10.7	-63.5	-27.9	-92.9	-28	-125.1	-17.3
5th		-65	-43.4	-28.6	-14.7	12.4	25.5	51.7	65.5	68.7	77.5	6.5	-22.7
6th		51.3	-6.6	14.3	-1.5	-34.5	0.5	-77.4	3.6	-84.3	9.8	67.6	11.6
7th		14.9	6.5	-0.3	-0.3	-20.8	-12.2	-37.6	-22.7	-39.3	-17.7	29.8	35.6
8th		31.9	-30	-0.9	-1.6	-47.3	34.5	-79.3	57.3	-69.4	56.5	106.6	-48.6
	RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725		Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Chord Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400	
15/ 5	MEAN	-55.7	-303.6	-480.4	-644.5	-2757.2	-425.1						
	RMS	594.9	679.7	585.8	2591.5	1871.3	61.8						
	1/2 P-P	1127.3	1391.9	1227.3	4089.4	3516.7	134.5						
	HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st		-359.1	-212.9	-271.3	-156.4	-15.7	-12.7	-3325.9	1462.3	-340.4	461.4	26.2	-9.7
2nd		-488.8	14	-645.6	24.7	-533.7	24.3	159.1	173.6	259.3	-99.4	-32.8	2
3rd		-407.5	221.3	-444	209.8	-445.9	136.7	201.9	70.1	-423	-315.1	-64.4	-19
4th		164.7	44.4	336.3	41.8	258.9	22.2	-192.9	79	2235	-1021.4	19.9	21.5
5th		-106.5	-137.8	-40.2	-148.1	167.1	-95.6	137.1	122.3	-305.3	-346.5	-1.9	-10.4
6th		114.6	-14.8	28.6	4	14.8	29.2	-1.3	-23.3	-35.2	44	9	-9.6
7th		37.2	-4.5	-52.8	-42.6	-196.7	-38.1	-18.7	12.3	36.6	-3.8	-0.5	-1.8
8th		-46.1	26.6	-103.6	88.4	-151.8	72.8	-138	-113.6	153.2	95.7	-4.1	5.1

RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	-494.6	-4119.8	-361.8	-4693.4	-1654.5	-1654.5	-1654.5	-1654.5
RMS	521.5	2235.2	509.6	2377.5	1978.8	1978.8	1978.8	1978.8
1/2 P-P	900.2	3591.6	901	3877.7	3311.3	3311.3	3311.3	3311.3
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	466.8	2.2	-1580.7	-2697.8	16.9	449.6	2824.1	-1767.3
2nd	0.8	-65.2	-145.1	-141.3	-25.4	71.6	179.5	181.8
3rd	-301.4	-433.3	72.2	-182.7	-428.6	282.2	-180.1	-62.9
4th	148.8	25.7	-220.2	75.2	173.3	40.2	31.7	106.1
5th	46.7	-110.2	-106.2	180.2	97.1	23.8	-181.7	-97.3
6th	-54.4	11.3	21.9	15.6	55.9	-7.6	-11.2	0.4
7th	15.9	-21.2	10	-19.9	-23.7	-6	23.9	-33.4
8th	-1.5	-35.8	-103.1	-72.4	14	-36.2	-125.3	-90.6
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Pitch Link, lb
14/ 6	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1
MEAN	-1684.6	-411.2	-273	-5694	-494.3	-494.3	-494.3	-494.3
RMS	1700.5	53.8	479.7	2219.6	53.4	53.4	53.4	53.4
1/2 P-P	3454.9	122.2	868.6	3643.4	112.8	112.8	112.8	112.8
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	581.7	-696.5	-24.7	27.6	-378.6	94.9	1540.5	2704.4
2nd	235.2	-13.5	-25.3	-2.3	-23.6	-58.4	-120.4	-144.4
3rd	274.9	300.6	56.8	4.6	284.9	429.7	-84.3	173.3
4th	1684.1	-1248.1	4.4	15.9	154.8	32.5	-81.4	71.8
5th	486.2	289.2	2.7	4.5	-14.2	90.1	110.1	-160.2
6th	-1.4	3.4	6.9	-7.4	-50.3	5.5	-1.7	9.4
7th	-20	12.2	0.8	2.6	-8.6	23.3	10	-17.9
8th	53.5	44.4	-5.4	6	12.6	-25.4	-112.8	-102.5

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
		Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.370	Blade 1, r/R=0.400	Blade 1, r/R=0.570	Blade 1, r/R=0.570	
MEAN	-375.2	101.8	327.8	514	445.1	176.4					
RMS	483.3	286.3	140.2	218.1	265.7	472					
1/2 P-P	871.1	552.3	276.9	513.8	596.2	871.6					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-164.8	-400.6	-125.7	-260.6	-81.5	-153.3	-113.2	-120.7	-128.7	-123.7	
2nd	-26.3	59.6	-21.7	35.5	-30.8	10.3	-43.6	-0.3	-46.1	-3	
3rd	414.2	-250	227.6	-130.6	-1.6	-19.6	-163	67.3	-227.1	106.9	
4th	154.5	35.4	83.6	17.2	5.2	-9.4	-65.1	-30.1	-95.1	-31.3	
5th	-84.3	-47.2	-36.1	-17.1	18	25.9	71.4	68	93.3	79.8	
6th	59.4	-5	19.5	-0.4	-32.4	-0.1	-77.2	0.8	-86.9	6.7	
7th	21.6	7.6	3.7	-2.1	-19.9	-18.5	-38.2	-31.3	-40.9	-26.7	
8th	33.7	-26.7	-0.3	-2.1	-48.1	29.5	-81.8	49.1	-71.1	49.2	
RUN/POINT	Flap Bending, in-lb	Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
14/ 6	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.400	Blade 1, r/R=0.400	Blade 1, r/R=0.400	
MEAN	-69.5	-310.1	-467.4	-6359.9	-2854.4	-423					
RMS	589.6	663.9	561.2	2304.5	1673.9	59.6					
1/2 P-P	1120.2	1351.6	1206.9	3694.1	3293.5	132.7					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-347.3	-226.9	-260.2	-172.1	-10.9	-22.4	-2789.7	1626.2	-255.5	491.8	
2nd	-454.8	2.1	-604.3	8.2	-499.9	10.3	165.4	136.7	250.7	-96.8	
3rd	-419.1	214.2	-451.5	204.2	-443.7	128.7	184.4	75.1	-397.7	-302.7	
4th	164.2	56.3	327.9	67.5	246.8	46	-150.8	33.6	2014.7	-776.4	
5th	-149.2	-145.1	-93.4	-149.8	124.2	-85.4	162.9	129.3	-364.5	-356.7	
6th	118.4	-5.7	37.6	6.1	26.1	27.8	-9.8	-9.7	-19.7	21.8	
7th	41	-2.2	-52.7	-51.3	-196	-60.9	-1.5	-2	21.4	2.5	
8th	-47.9	22.9	-109	76.8	-159.4	56	-102.5	-96.2	110	80	

RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
28/19	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	-573.2	-4385.3	-495.3	-5029.6	-1964.8	-1964.8	-729.1	-143.9
RMS	488.3	1968.7	479.3	2128.7	1779.5	1779.5	1812	207.3
1/2 P-P	916.2	3094.8	912.9	3208.4	2835	2835	3596.7	-29.6
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-10.9	140.1	-223.2	-2720.4	-100.5	-23.3	2967.4	-233.4
2nd	-159.3	94.7	85.2	-45.9	145.9	90.6	-44.4	62.8
3rd	-303.8	-474.5	75.7	-184.4	-486.3	285	-170.4	-72.1
4th	208.1	-14.2	-307.2	179.4	217.9	-13.2	47	77.6
5th	-167.1	-118.7	112.6	147.8	121.2	-153.6	-148.5	157.5
6th	-65.4	41.5	37.3	-3.3	60.7	-33.3	-27.1	40.2
7th	-13.2	-69.5	47.8	-69.9	-61.1	15.9	-20.4	-100.9
8th	-53.8	-62.5	-237.5	-60.2	-32.3	-65.7	-262.9	-63.6
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Pitch Link, lb
28/19	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1
MEAN	-1635.5	-407.4	-444	-6185.1	-486.3	-486.3	-48.4	20.1
RMS	2253.8	61.1	496.8	2068.3	59.6	59.6	19.7	-5.1
1/2 P-P	4230.7	135	957.4	3084	131.5	131.5	38.6	-1.9
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	693.3	-172.5	-7.1	18.6	67.3	-94.4	161.7	2885.7
2nd	300.1	-69.9	-30.7	-16.7	-170.3	-90.1	105.9	-38.1
3rd	353.7	317.8	71.1	5.7	312.9	490.6	-102.3	169.1
4th	2503	-1629.1	-3.7	-2.4	220.4	-8.2	-77.8	137.9
5th	479.6	-354.2	-5.7	-7.2	156.9	95.7	-92.5	-161.1
6th	-22	-86.3	4.1	-10	-60.8	32.3	11	13.1
7th	28	54.4	-3.3	8.4	12.4	65.8	-28.3	-1.3
8th	114.5	53.9	1.1	12.8	-65.8	-77.5	-250.3	93.3

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
28/19													
MEAN	-557		-18.7		258.1		389.1		393.7		331.5		302.2
RMS	457.7		249.4		141.3		284.1		737.7		680.4		518.6
1/2 P-P	846.3		436.4		319.8								1022.4
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-55.3	61.2	-66.8	20.5	-70.3	-30.6	-125.4	-70.5	-141	-82.3	-229.8	-168.1	
2nd	146.1	82.9	78.6	50.8	-2	13.1	-61	-6.1	-79.7	-14.1	-273.8	-85	
3rd	484.9	-260.1	267.5	-135.2	2.1	-21.7	-192.3	71.2	-257.3	114.8	-527.9	215.8	
4th	197.7	-5.8	111.3	-6.6	12.6	-22.2	-80.9	-25.6	-124	-19.2	-127	-6.7	
5th	-106.2	131.9	-42.3	49.1	47.6	-45.4	129.8	-127.8	150.6	-154.5	-36.1	-10	
6th	61	-27.7	20.1	-8.6	-36.2	9.2	-87.3	27.2	-97.3	37.9	74.1	-3.7	
7th	62.8	-20.3	11	-14.7	-62	-15.8	-121.9	-13.5	-125.2	-1.8	138.4	40.7	
8th	-12.5	-50.8	-8.2	-2.4	-6.5	66.1	-1.9	109.5	6.3	101.9	23.5	-123.9	
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725		Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Flap Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400		
28/19													
MEAN	-186.9		-424.4		-508.2		-6693.6		-2685.1		-420.8		
RMS	687.4		733.5		629.1		2024.2		2470.2		67.3		
1/2 P-P	1451.9		1661.4		1611.2		3086		4622.9		139.4		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-262.6	-189.2	-213.4	-150.5	-28.9	-33.4	-2798.9	331.6	-342	188.2	6.1	-6.2	
2nd	-449.2	-45.1	-492.1	-19	-353.6	7.7	-48.7	38.2	321.6	90.5	-35.4	-15.3	
3rd	-609.3	266.8	-649	261.2	-533	178	173.5	93	-472.3	-316.9	-77.8	-15.3	
4th	149.5	59.2	229.4	77.8	104.5	67.7	-236.5	143.2	3054.1	-1402.2	11.9	-5.2	
5th	-209.7	276.5	-119.5	325.6	60.1	234.5	146.7	-126.6	-390.6	225.4	0.4	11.8	
6th	125.5	-47.8	125	-46.5	182.6	-30	-11.1	-4.5	-47.5	2.2	7.9	-13.6	
7th	45.6	-18.3	-177.2	-4	-290.3	-0.6	41.5	25	-39.6	-23.5	1.4	-7.9	
8th	7.8	35.7	-15.3	165.5	-139.5	199.2	-248.3	-99.6	259.8	72.7	-0.1	13.1	

RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	3282.3	-1198.5	3396	-1896.5	891.5	268.8		
RMS	634	6659.9	641.6	6041.4	5078.4	3617.6		
1/2 P-P	1305	10034.2	1364.1	9212	8025.9	7525.3		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	171.8	-249.8	-4015.3	-8444.6	256.1	61.3	7109.5	-4621.5
2nd	123.9	-28.3	-500.8	-358.2	-236.1	-12.1	608.9	452.3
3rd	-441.9	-584.5	172.4	-658.8	-612.3	412.3	-547.9	2.8
4th	274.4	-6.1	-404	297.8	305.5	10.3	156.9	177.5
5th	-188.9	-166.6	34.8	236.4	168.7	-124.1	-132.1	48.1
6th	-74	33.6	91.4	-42.8	73.1	-28.9	-34.3	-18.2
7th	-2.3	-53.5	42.8	-44.3	-42.8	-7.4	-78.1	-19.1
8th	-74.4	-2	-221.7	84.5	-29.8	-30.8	-254.2	-34.2
								-36.5
								-31.3
								-47.2
								-53.7
								33.2
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Torsion, in-lb	Pitch Link, lb
	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1
MEAN	-1439.5	-424.7	3379.9	-3047.5	-535.3	-3047.5	-535.3	-30.4
RMS	3716.4	110.9	634.2	6618.9	113	6618.9	113	48.4
1/2 P-P	7590.5	193.4	1382.6	10023.4	213.3	10023.4	213.3	98.5
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	1398	-1819.8	-47.4	-25	-73.5	216.9	3969.4	8417.2
2nd	592.9	-39.3	35.1	62.5	170.6	-29.6	-503.3	-447.9
3rd	905.1	723	76	-54.6	459.1	599	-212.4	539.9
4th	3335	-2963.8	58.4	47.7	294.6	16.8	-98.8	223.1
5th	702.7	-202.1	-33.3	15.5	173.8	125.3	-33	-191.3
6th	-9.3	-32.5	-6	-11.2	-60.3	25.7	75.2	-41.8
7th	6.6	20.8	11.6	10.1	4.8	55	-42.9	16
8th	124.7	-30.1	1.9	4.1	-77.7	12.8	-235.5	37.1

RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.144	Flap Bending, in-lb Blade 1, r/R=0.167	Flap Bending, in-lb Blade 1, r/R=0.215	Flap Bending, in-lb Blade 1, r/R=0.280	Flap Bending, in-lb Blade 1, r/R=0.325	Flap Bending, in-lb Blade 1, r/R=0.570
MEAN	3292.1	2381.2	1255.3	944.5	793.4	629
RMS	648.2	378.9	159.8	302.2	377	669
1/2 P-P	1282.4	743.7	376.7	719	844.9	1260.7
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-277.1	-157.8	-221.1	-97.2	-116.5	-100.6
2nd	-335.8	11.8	-208	2.1	-94.4	3.9
3rd	613.3	-367.6	339.9	-194.8	-1.1	-24.8
4th	271.6	6.3	155	-3.5	31.1	-35.3
5th	-152.7	59.6	-59.8	22	64.2	-12.6
6th	75.9	-23.3	25.2	-6.5	-41.9	5.7
7th	33	6.5	4.6	-5.6	-35.4	-31.4
8th	-4.5	-11.5	-11.5	4.8	-18.4	28.8
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800	Flap Bending, in-lb Blade 1, r/R=0.900	Flap Bending, in-lb Blade 1, r/R=0.144	Chord Bending, in-lb Blade 1, r/R=0.570	Torsion, in-lb Blade 1, r/R=0.400
MEAN	153	-305.2	-759.2	-3239.6	-2653.4	-441
RMS	985.2	1166.3	926	6829.3	4055.3	132.2
1/2 P-P	1854.1	2223.3	2039.5	10313.1	7744	229.3
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-424.2	-249.7	-118.6	-15.8	9.5	-8464.2
2nd	934	-68.7	-1137.5	-107.3	-803.6	4503.4
3rd	-676.9	216.3	-914.6	157.4	-864.8	-819.9
4th	276.3	72.4	559.7	66.8	319.7	-124.2
5th	-398.3	160.4	-255.6	228.5	120	-124.2
6th	153.3	-42.2	33.3	-1	103.9	641.6
7th	47.1	-12.9	-105	-101.5	-300.7	-1124.4
8th	-23.6	30.6	-7.9	52.6	-101.5	-756.2

RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	1770.9	-2732.4	1858.6	-3470.9	-514.1	-2404.7	2281.4	-1563
RMS	676.7	4488.3	655.6	4444.1	3741.6	272.3	441.5	83.4
1/2 P-P	1311.2	6870	1252.6	7086.6	6204.1	7086.6	6366.6	6366.6
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	242.1	-349.5	-2678.5	-5670.9	380.6	176.3	5478.6	-2951.7
2nd	17.7	-94.3	-340.5	-22	-84.5	62.5	374.1	329
3rd	-445.4	-579.6	124	-516.5	-565.8	408.8	-482.1	-97.3
4th	262.8	-5.4	-385.1	345	308	-1.8	135.7	117.9
5th	-176	-264.9	67.6	255.9	211.8	-155	-254.4	100.1
6th	-89	33.6	72.8	-14.2	90.5	-47.9	-39.5	44
7th	2.7	-71.1	17.2	-20.2	-65.2	1.2	-66.4	-29.5
8th	-45.5	-60.5	-366	-65.3	-32.4	-63.2	-368.8	-78.2
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Pitch Link, lb
	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1
MEAN	-1618.1	-443.2	1908.4	-4560.8	-539.7	-539.7	-55.5	-55.5
RMS	3443.3	79.7	650.7	4433.1	82	82	33.3	33.3
1/2 P-P	6700.9	168.8	1221.5	6947.2	161.8	161.8	64.6	64.6
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	1098.5	-1194.7	-23.6	-13.5	-123.7	336.8	2523.1	31.7
2nd	487.2	-44.3	-6	17.5	16.2	-101.8	-245	11.1
3rd	716.5	497.2	78.2	-25.6	435.5	563.2	-155.5	453
4th	3383.1	-2740.5	43.7	37.5	297.1	0.2	-63.4	163.2
5th	975.6	-325.6	-24.7	10.5	213.3	209.8	-50.6	-226.3
6th	-25	-47.2	3.8	-17.4	-79.5	39	56.8	-41
7th	22.2	12.7	9.1	10	1.4	78.5	-52.8	82
8th	167.4	45.7	-2.2	13.1	-71.8	-46	-339.8	-91.1

RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.144	Flap Bending, in-lb Blade 1, r/R=0.167	Flap Bending, in-lb Blade 1, r/R=0.215	Flap Bending, in-lb Blade 1, r/R=0.280	Flap Bending, in-lb Blade 1, r/R=0.325	Flap Bending, in-lb Blade 1, r/R=0.570
MEAN	1860.7	1489	892.7	772.9	653.8	428
RMS	671.2	394.9	199.5	368.8	442.6	656
1/2 P-P	1298.7	787.2	400.3	822.8	953.9	1262.8
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-505.2	-200.5	-353.2	-135.5	-180.2	-121.9
2nd	-75.9	76.4	-53	45.1	-46.6	-51.7
3rd	546.5	-361.5	302.6	-189.2	-5.3	-216.6
4th	273.4	-21.5	154	-17.2	20.4	-29
5th	-216	149.2	-81.2	56.7	102.8	-44.3
6th	88.3	-41.2	29.8	-12.9	49.3	14.2
7th	64.4	-1.3	13.8	-11.9	-55.7	-38.5
8th	-44.4	-53.9	-18.5	-0.1	15.4	80.7
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800	Flap Bending, in-lb Blade 1, r/R=0.900	Chord Bending, in-lb Blade 1, r/R=0.144	Chord Bending, in-lb Blade 1, r/R=0.570	Torsion, in-lb Blade 1, r/R=0.400
MEAN	10.6	-357.1	-676.7	-4909.5	-2729.4	-454.5
RMS	998.3	1117.8	869	4538.6	3691.9	91.1
1/2 P-P	1819.6	2104	1862	7066.2	6965.4	174.9
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-391.1	-285.8	-261.5	-185.3	-16.9	-27.5
2nd	-776.5	-39	912.6	-65	-671.4	-20.4
3rd	-709	331.9	-900.7	312.9	-821.7	168.4
4th	269.2	-11.9	488.8	-1.1	267.9	4.9
5th	-547.5	347.6	-432.4	386.3	-32.9	282.5
6th	163.3	-36.2	83.1	21.8	158.1	40.9
7th	68.8	-47.3	-151	-69.1	-343.6	-54.1
8th	7.8	66.8	76.2	161.9	-41.2	178.5

RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	325.2	-4188.7	418.5	-4625.3	-1541.6	-	-	-531.5
RMS	562.2	2872.1	557.4	2838.7	2387.8	-	-	2341.7
1/2 P-P	1046.5	4352.1	1055.1	4467.1	4039.7	-	-	4702
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	212.4	-102.4	-1198.2	-3821.1	190.1	152.6	3766.5	-1267.4
2nd	-106.6	-146.4	-74.9	-108.8	78.8	124	63.6	186.2
3rd	-337	-530.2	122.2	-296.4	-563.3	296.5	272.8	-108.8
4th	246.1	7.7	-352.4	237.3	259.6	24.3	76.7	154
5th	-162.4	-204.2	75.6	197.2	177.8	-141.9	-203.3	80.9
6th	-68.5	32	5.3	27.4	75.6	-28.6	20.6	-3.4
7th	16.9	-71	52.9	-27	-66	1.2	-5.4	-55.5
8th	-53.5	-68.5	-273.2	-115.2	-11.5	-49.6	-283.5	-106.3
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Pitch Link, lb
17/9	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1
MEAN	-1644.3	-436.1	514.7	-5904.9	-520.6	-	-73	
RMS	2885.1	63.4	553	2826.9	64.3	-	21.1	
1/2 P-P	5343.3	127	947.2	4404.5	126.1	-	40.7	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	816.9	-562.1	-15.1	4.7	-75	174.4	1008.5	3832.9
2nd	384.2	-12.6	-31.7	-14.3	-91.1	-134.6	-25.5	-92.3
3rd	489.5	442.3	76	3.5	311.7	560.8	-139.1	260.2
4th	3269.7	-1925.6	7.3	3.9	256.3	24.4	-122	116.2
5th	757.5	-235.4	-8.6	-1.8	136.7	175.5	-53.2	-191.4
6th	-79.1	-44.5	6.2	-12.6	-75.6	31.2	1.1	-22.5
7th	20.7	32.2	0.8	8.7	-13.7	73.4	-41	56.3
8th	122.1	76.2	-3.7	11.8	-49.9	-68.2	-251.3	-123.7

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
		Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325
MEAN	443.5	603.9	524.3	590.8	499.2	193.8					
RMS	555.9	318.8	185.7	343.5	403.7	604.6					
1/2 P-P	1055.8	628.2	452.3	810.8	837.4	1206.5					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-312.3	-149.5	-228.2	-109.9	-134.6	-91.6	-158.4	-102.9	-172	-113	-296.4
2nd	60.1	126.6	25.5	75.9	-22.3	18.1	-59.4	-15.2	-70.9	-26	-301.8
3rd	542.1	-268.7	294.9	-137.7	-7.8	-19.5	-221.4	77.3	-303.3	124.3	-125.2
4th	231.5	7.1	128.2	-1.8	11.2	-27.2	-100.2	-45.2	-149	-42.5	-173.7
5th	-185.3	93.7	-67.5	31.2	89.9	-35.2	232.4	-92.2	273.6	-113.8	-47
6th	69.7	-13.5	19.6	-1.1	-48.4	7.9	-107.4	18.1	-117.7	28.2	97.2
7th	63.2	1.4	10.1	-12.9	-63.6	-44.8	-123.2	-64.8	-129.8	-49.8	125
8th	-30.7	-60	-13.7	-2.8	5.9	81.1	24.8	138.4	35	126.8	0.9
RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
		Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.400	Blade 1, r/R=0.400
MEAN	-127.2	-414.3	-591.8	-6389.5	-2737.9	-447.1					
RMS	847.2	908	734.8	2860.6	3040.3	70.1					
1/2 P-P	1699.3	1876.8	1848.7	4483.4	5613.9	129.4					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-330.1	-234.7	-258.6	-176.7	-36.3	-22.2	-3806.7	1224.7	-409.9	428.4	12.5
2nd	-568	-104.2	-632.4	-85.7	-466	-26.6	114.5	90.6	457.4	-95.3	6.2
3rd	-728.2	260.7	-818.7	231.7	-692.4	124	283.5	131.6	-664.6	-488.4	-34.4
4th	213.9	86.7	326.9	126.6	153.8	86.9	-276.2	59.3	3926.1	-1117.6	-15.3
5th	-441.3	196	-340.5	248.6	-41.8	219.4	223.1	-46.5	-656.6	-3.6	-16.1
6th	150.6	-18.3	127.4	-7.6	195.7	28.9	-14.4	-11.4	-43.3	-3.3	-12.1
7th	66.8	-25.4	-192.8	-71.3	-340.6	-97.1	39.9	100.1	-25.4	-88.7	1.1
8th	9.6	53.4	33.8	194.9	-98.7	193.9	-260.6	-134.7	294.4	114.7	-11.6

RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	-338.5	-4797.6	-266	-5239.8	-2091.4	-719.9		
RMS	569.9	2201.3	554.1	2259.1	1896.2	1999.2		
1/2 P-P	1125.6	3383.7	1111.3	3604.1	3308	3952.3		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	349.1	-78.8	-1056.2	-2871.1	122.5	288.6	2942.2	-1140.3
2nd	-174.7	-121.5	19.7	-110.8	159	108.6	-21.7	145.5
3rd	-284.2	-514.4	109.6	-193.9	-529.2	262.4	-178.4	-110.9
4th	218.6	6.2	-338.3	173.6	237.1	17.3	42.7	123.2
5th	-205.9	-146	141.3	133.2	151.6	-185.8	-178.1	158.3
6th	-60.4	24.7	39.8	17.1	61.9	-26.1	-5.7	10.9
7th	-2.6	-75.3	25.6	-36.8	-72.3	6.1	-31.6	-79.9
8th	-51.5	-67.1	-238.5	-86.3	-19.3	-58.4	-262.2	-97.5
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Pitch Link, lb
	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1
MEAN	-1684.7	-420.1	-162.8	-6518.4	-499.9	-76.3		
RMS	2513	57.5	556.2	2213	58.9	16.2		
1/2 P-P	4562.7	123.6	1079	3509.2	124.9	34.1		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	672.4	-480.4	-9	18	-258.5	128.6	985.6	2935.9
2nd	338.5	-14.6	-30.2	-17.6	-165	-118.6	41.6	-83.8
3rd	371.4	346.7	64	10	279.1	539.5	-136	167.6
4th	2877.7	-1652.1	-5.8	-8.4	237.5	18.6	-95.7	107.1
5th	585	-417.7	-10.3	-6.1	187.3	113.7	-112.9	-142.1
6th	-44.3	-62.1	5.7	-8.9	-63	27.9	12.1	-19.9
7th	40.1	52.6	-0.6	8.9	0.5	75.9	-65.6	17.9
8th	113.6	69.4	-0.3	10.7	-50	-69.6	-232.6	-113.2

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
17/8		RMS		RMS		RMS		RMS		RMS		RMS	
MEAN	-217.2		193.7		357.6		518.2		437.5		107.6		
RMS	544.9		316.4		183.8		319.9		374.1		548.3		
1/2 P-P	1123.5		679.3		397.6		717.6		779.5		1129.5		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-269	-282.8	-197.6	-191.4	-125.8	-122.4	-152.5	-110.9	-160.8	-115	-231.6	-206.7	
2nd	154.3	106.9	82.5	65.8	-2.7	15.2	-61.3	-11	-85	-22.3	-302.2	-111.9	
3rd	504.7	-222.9	275.8	-114.4	-2.5	-21.2	-199.9	56.4	-272.3	95.1	-559.6	173.6	
4th	209.6	15.9	117	4.9	12.4	-22.5	-86.7	-36.5	-131.9	-35.8	-133.3	-22.9	
5th	-141	156.1	-52.8	55.2	70.2	-60.8	182.8	-162.2	212.3	-198	-50.6	-13.7	
6th	57	-8.7	16.1	-0.1	-39.2	4.6	-88.2	10.5	-98	16.3	69.8	7.4	
7th	68.4	-9.6	12.2	-12.5	-64.2	-26.9	-126.6	-34.7	-134.2	-22.7	144.2	71.4	
8th	-20.2	-53.7	-9.8	-5.4	2.1	64.6	13.4	110	19.7	101.4	8.9	-127.3	
RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.725		Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Chord Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400	
MEAN	-183.3		-428.8		-537.5		-7065.4		-2759.2		-430.1		
RMS	771.9		829		682.5		2238.7		2704		64.8		
1/2 P-P	1641.2		1823.6		1755.2		3538.9		5047.5		123.4		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-268.2	-227.4	-216.6	-185.4	-27.1	-36.4	-2927.5	1087.6	-348.3	366.9	8.1	-4.2	
2nd	-486.5	-80.8	-531.9	-58.3	-382.3	-16.2	6.3	83.1	396.6	-77.3	-34.9	-18.9	
3rd	-683.2	224.6	-734.5	218.6	-602.7	135.7	187	117.3	-503.7	-408.7	-72.3	-21.2	
4th	145.6	88.4	224.2	122.3	89.2	94.8	-266.6	91.4	3480.7	-1125.5	8.7	-3.3	
5th	-318.1	363.9	-239.3	448.7	-21.5	346.7	180	-109.5	-497.1	205.6	5.8	16.1	
6th	128.4	-15.3	139	-11	208.5	12.3	-9.1	5.8	-40.6	-20.7	11	-11.7	
7th	49.5	-12.3	-182.3	-35.7	-293.2	-57.4	-2.1	55.1	3.4	-55.3	4	-9.5	
8th	19.6	35.8	-0.5	160.7	-136.8	171.9	-228.8	-119.5	252.9	95.9	0.1	8.7	

RUN/POINT		Flap Bending, in-lb	Chord Bending, in-lb						
		Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.174
MEAN	-1015.5		-5294.9		-962.7		-5754.1		-2556.2
RMS	517.1		1395.4		502.9		1448		1219.2
1/2 P-P	989.9		2281.4		962.9		2337.5		2160.2
HARMONIC COSINE SINE COSINE SINE COSINE SINE COSINE SINE COSINE SINE									
1st	271.1	-107.9	-584.2	-1822.2	109.3	226.3	1904.2	-638	1591.8
2nd	-237.6	-93.4	75.3	-64.1	235.4	98.8	-107.4	80.9	-50.3
3rd	-249.1	-470.1	97.1	-121.3	-474.8	231	-105.2	-98.6	-80
4th	191.6	-4.8	-292.8	153.9	196.2	2.3	3.8	87.6	337.2
5th	-197.8	-106.5	157.3	94.9	108.8	-190.6	-143.1	173.1	-67
6th	-52.5	20.5	28.7	5	48.4	-27.7	-12.7	25.2	-15.6
7th	-8.3	-72.4	55.7	-44.8	-66.8	11.9	1.3	-62.7	8.4
8th	-44.6	-30.8	-176.8	-5.6	-23.6	-36.5	-188.2	-14.1	-165.5
RUN/POINT Chord Bending, in-lb Torsion, in-lb Flap Bending, in-lb Chord Bending, in-lb Torsion, in-lb Flap Bending, in-lb Chord Bending, in-lb Torsion, in-lb Pitch Link, lb									
		Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1
MEAN	-1721.6		-400.9		-829.2		-7013.4		-474.6
RMS	2052.1		56.5		504.2		1381.7		53.2
1/2 P-P	3770.3		129.6		951.9		2241.5		123.6
HARMONIC COSINE SINE COSINE SINE COSINE SINE COSINE SINE COSINE SINE									
1st	441.1	-284.7	-8.1	28.2	-193.9	153.5	527.9	1843.4	-14
2nd	259	-26.3	-33.7	-20.5	-236.4	-105.5	97.7	-24.6	29.8
3rd	244.2	250.8	51.2	7	240.8	471	-110.5	104.7	10.9
4th	2385.1	-1359.3	-18.3	-17.4	193.1	4.5	-93.7	98.4	-15.5
5th	415.9	-457.1	-12.3	-9.3	204.6	79.8	-161.6	-108.1	14.7
6th	-26	-70.1	5.4	-5.2	-48.8	24.5	7.1	-30.3	-5.8
7th	21.3	45.4	-0.3	7.4	9.7	70.3	-22.5	16.5	8
8th	85.2	31	1.8	5.7	-48.3	-39.6	-171.8	-26.3	4.2

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
		Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325
MEAN	-874.3	-214.5	188.7	438.3	370.1	34.3					
RMS	512.4	298.8	175	289.2	334.7	486.2					
1/2 P-P	985.7	601.9	396	652.1	691.2	1033.2					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-299.3	-194.6	-212.1	-137.6	-129	-95	-133.6	-91.2	-132.5	-95.4	-175.8
2nd	234.7	88.4	130.7	55.6	9.9	9.8	-74.2	-15	-106	-24.7	-290.7
3rd	452.9	-203.5	248.4	-104.2	4.5	-17.3	-166.3	56.8	-229.7	92	-503.4
4th	183.7	-1.5	101.4	-3.4	5.3	-19.3	-81.2	-22.4	-118.8	-16.8	-108.1
5th	-100.6	179.5	-39.6	68	51.5	-63	132.5	-179.5	150.8	-220.4	-30.5
6th	51.9	-13.2	18	-1.6	-28.2	8.9	-69.3	19.2	-76.6	27.6	45.4
7th	72.3	-11.2	17.6	-9.7	-57.7	-18.6	-119.6	-22.1	-128.7	-11.1	139.4
8th	-29.2	-27.5	-6.5	-0.8	24.2	38.5	47	63.2	48.9	58.3	-35.8
RUN/POINT	Flap Bending, in-lb	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
		Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.400
MEAN	-218.7	-431.5	-476.3	-7617	-2777.2	-408.8					
RMS	689.1	733.5	608.3	1398.2	2128.8	57.5					
1/2 P-P	1535.1	1589.6	1507.3	2295.8	4136.6	128.6					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-201.6	-161.2	-167.8	-15.9	-43.5	-1842.6	586.4	-235.7	222.1	6.9	-14.8
2nd	-434	-51.6	-455.6	-28.8	-304.3	-6.2	-65.8	37.5	316.6	-71.2	-35.7
3rd	-589.9	212.4	-615.9	212	-493.5	146.5	116.9	97.2	-355	-287.7	-56.9
4th	109.2	50.5	167.1	73.4	63.1	70.3	-187.7	90.2	2696.9	-1020.9	-5.7
5th	-225.4	409.4	-166.4	496.4	-16.2	366.3	155.9	-142.5	-401.1	306.7	6.5
6th	119.4	-25.4	148.1	-15.9	202.5	-0.8	-13.9	7.1	-17	-19.5	8.5
7th	40.4	-13	-153.7	-20.7	-231.2	-30.6	33.9	38.3	-32.7	-39.8	3
8th	31.5	22.2	35.6	104.6	-76.3	121.4	-177.1	-25.8	183.2	11.6	2.1

RUN/POINT		Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb
		Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.174				
MEAN		-2313.9	-6138.7	-2292.5	-6606.7	-3317	-1139.2		
RMS		401.7	536.2	402.8	545.6	441.4	710.7		
1/2 P-P		798.1	990.2	792.6	967.4	817.6	1400		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	222.6	96.3	75.1	-652.3	-119.2	194.4	651.9	70.6	536
2nd	-383.6	-30.1	237	-45.1	391	38.2	-293.4	61.9	-206.2
3rd	-116.2	-234.7	45.1	-47.8	-239	113.3	-32.7	-42.5	42.5
4th	98.8	-17.8	-131.8	101.3	101.1	-17	-24.5	40	-30.4
5th	-174.1	-26.9	169.7	-10.7	40.9	-171.9	-22.2	196.2	132.4
6th	-11.4	8.6	4	-12.9	9.5	-14.7	-2.2	12.9	-9.6
7th	-5.5	-35	-10.1	6.1	-34.7	8.8	-28.6	10.7	-4.2
8th	-14.3	56.9	-4.4	76.2	-18.4	59	-7.6	88.7	3
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Pitch Link, lb	
17/6	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 3, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1	
MEAN		-1793.1	-357.3	-2110.5	-7826.2	-420.1	-76.5		
RMS		974.2	50.8	381.1	498.5	44.3	8		
1/2 P-P		1937.1	110.7	781.5	909.2	103.8	18.6		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	198.2	-28.7	-19.2	38.9	-169	-37.4	-125.2	586.4	-25.9
2nd	95.2	-21.6	-39.8	-26.2	-383.8	-33.2	265.7	-8.9	34.5
3rd	68.7	78.9	15	-3	118.2	246.6	-48.4	33.2	22.5
4th	1076.4	-629.8	-19.6	-10.4	96.5	-19.7	-59.3	32.7	1.4
5th	90.5	-507.8	-9.6	-7.8	152.1	10.4	-169.4	-17.2	-18.7
6th	-15.1	-29.7	4.8	1.2	-5	9.3	9.4	-23.7	-6.5
7th	23.7	-4.6	0.6	0.8	11.4	30.5	-31.3	22.9	-1.3
8th	15.3	-40.1	1	-6	3.9	45.1	-19	90.5	-0.6

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
17/6	1/2 P-P	RMS	MEAN	1016.4	-1016.4	217.6	217.6	102.2	102.2	289.8	289.8	254.4	-92.3
				411	411	219.6	219.6	395.7	395.7	478.1	478.1	308.3	308.3
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	SINE
1st	-76.7	-165	-65.6	-116.5	-59.2	-76	-70.6	-71.6	-66.8	-76.1	-24.2	-127	
2nd	388.4	29.7	222.3	21	41.7	-1.1	-73.8	-9.2	-112.9	-12.3	-287.5	-41.6	
3rd	234.5	-96.8	130.3	-50.4	4.6	-10.1	-86.5	24.9	-120.5	41.7	-268.4	72.6	
4th	94.8	-15.3	53.1	-8.6	2.2	-7.7	-42.3	1.4	-62	7.9	-58.5	-5.9	
5th	-30	145.6	-11.4	55.5	24	-52.3	51.6	-145.9	53.3	-176.5	-9.7	-3.3	
6th	7.3	-2.4	3.9	-0.5	-1.9	1.6	-9.8	4.1	-11.1	7	6.5	-4.9	
7th	32.6	-6	8	-2.3	-24.5	-2.2	-52	-1.7	-57.3	4.5	60.4	12.8	
8th	-10.6	26.9	2.7	4.3	24.3	-25.4	37.6	-46.9	31.7	-47	-50.9	37.4	
RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.725		Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Chord Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400	
17/6	1/2 P-P	MEAN	RMS	1003.8	-290.2	-447.5	1052.2	-334.1	-8544.1	-2826.9	-363.2		
					-433	474.5	934.7	357.3	521.1	945.9	46.4		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	SINE
1st	9.9	-142.7	28.7	-117	36.3	-33.5	-629.4	-113.3	-150.1	36.5	19.7	-27.5	
2nd	-360	-6.3	-341.3	9.1	-177.8	13.2	-250.7	25.2	166.2	-51.6	-39	-22.8	
3rd	-326.7	126.3	-342.6	130.2	-280.7	96.7	43	43.5	-125.4	-91	-19.2	-0.9	
4th	34.5	7.1	60	20	22.7	28.7	-76.1	52.9	1123.7	-516.9	-15.5	-10.6	
5th	-77.3	329.3	-54.9	399.2	-7.3	287.3	36.5	-171.2	-107.9	376.7	9	13.6	
6th	41.9	-8	74	-5.4	105.1	-0.4	19.7	2.2	-36.6	3.5	3.9	0.4	
7th	25.2	-5.1	-47.2	-5.4	-69.8	-8.9	-13.1	23.3	10.1	-21	0.6	-1.3	
8th	25.7	-14	26.1	-58.2	-23.9	-58.8	-10.4	81.2	5.2	-68	2.4	-3.5	

RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	-3513.1	-6711.6	-3501.5	-7167.8	-3825.1	-3825.1	-1292	-1292
RMS	401.3	545.1	420	598.7	486.4	486.4	291.7	291.7
1/2 P-P	754.9	1101.6	785.9	1249.3	974.3	974.3	645.2	645.2
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-51.7	135.8	509.3	418.5	-157.2	-68.6	-461.2	427.6
2nd	-537.3	-3.6	349.1	0.2	557.7	6.9	-425.7	-189.6
3rd	1.4	5.1	-8.1	-29.6	3.3	-0.7	-28.4	-114.3
4th	21.8	-7.5	-17.9	46.9	20.4	-5	-17.6	-25.7
5th	-78.2	59.7	76.3	-83.9	-50.9	-84.8	101.9	-113.1
6th	12.7	-9.6	-13.6	10.3	-16.5	4.9	8.9	-182.9
7th	-4.6	2.4	10.5	26.4	4.8	5.3	21.1	-110
8th	-1.4	35.6	5.1	35.5	-0.6	34.5	6.9	-30.8
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Pitch Link, lb
17/ 5	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1
MEAN	-1834	-313.7	-327.6	-8395.2	-364.8	-364.8	-71.1	-71.1
RMS	322.3	56.1	397.9	620.5	45	45	9.7	9.7
1/2 P-P	699.1	117.3	720.7	1234.1	96.9	96.9	20.4	20.4
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-70.1	128.3	-26.6	40.6	82.9	-58.4	-529.4	-27.5
2nd	-17.1	-30.6	-45.6	-31.7	-542.7	1.4	377	-6.4
3rd	25	13.3	-12.5	0.5	-3.9	6.1	13.2	10
4th	158.2	-61	-20.3	12.6	16.3	-12.8	28.3	-3.8
5th	-224.7	-300	-4	0.6	70.1	-61.5	-96.1	-27.3
6th	-26.1	12.2	4.4	0.4	18.1	-7	-4.6	-0.3
7th	-12.3	-23.4	-3.7	-2.1	7.2	-5.7	21.1	2.3
8th	-0.7	-23.8	1	-2.8	9.9	41.7	1.5	-1.9

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325	
17/ 5	MEAN	-33333.7		-1741.8		-439.9		166.2		158.7	-195.7
	RMS	405		233.2		74.6		99.7		125.6	238.3
	1/2 P-P	679.3		384.4		155.5		281.9		334.2	489.1
	HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
	1st	-53.8	99.7	-43.8	46.2	-42.1	-3.8	-37.5	-39.1	-25.8	-51.3
	2nd	552	1.8	320.4	6.8	78.9	-5.7	-64.1	-5.4	-110.1	-4.3
	3rd	-0.6	0.2	-0.8	-0.8	-5.7	-1.2	-15.8	4.8	-18.2	9
	4th	20.7	-11.7	13	-6.3	1.1	-0.2	-10.9	7.7	-17.4	12.5
	5th	52.1	77.7	21.8	31.6	-7.2	-29.2	-37.4	-81.7	-51.8	-96.4
	6th	-16	12.2	-6.8	5.4	6.6	-0.8	16.9	-6.9	19	-8.7
	7th	-5.6	-3.3	-1.4	0.4	4.8	5.2	9.8	9.1	8.6	10.1
	8th	-1.2	19.3	3.3	1.8	11.1	-23	15.2	-40.7	10.9	-38.6
	17/ 5	MEAN	-351.6	-431.2	-	-208.8	-	-91.81.2	-	-2868.9	-315.3
		RMS	329	331.1	331.1	202.2	202.2	601.7	601.7	292.8	48.1
		1/2 P-P	679.3	789	789	553.7	553.7	1246.5	1246.5	757.8	107.4
	HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
	1st	244.9	-74.5	254.3	-57.9	118.7	-19.6	464.8	-567.8	-27.4	-77.7
	2nd	-308.9	8.4	-251.3	23.1	-60.3	25.9	-371.4	-2.1	64.2	-21.8
	3rd	-85.3	39	-112.9	43.9	-118.1	38.6	34.2	-10.4	-32.3	-10.9
	4th	-15.1	-19.1	-16.7	-18.1	-17.3	-11.1	-7.3	21.7	137.2	-104.9
	5th	88.1	188.8	103.8	232.3	66.9	169.5	-87.1	-127.3	170.4	278.1
	6th	-10.5	11.1	2.2	13.5	14.6	6.9	14.4	-15	-19	20.7
	7th	7.7	-3.5	24.7	7.4	33.9	7	17.8	21	-15.9	-19.3
	8th	13.1	-18.6	21.4	-54.3	21.5	-50.7	1.2	40.7	-4.5	-35.5

RUN/POINT		Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
		Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	3389.1	786.9	3525.9	93.1	2555	1064.9			
RMS	320.6	5307.8	310.4	5233.3	4375.6	2400.9			
1/2 P-P	674.4	8005.3	684.8	8119	6846.9	4144.9			
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	293	171.8	-3930.5	-6360.6	-106.1	272.8	6163.4	-4032	5189.9
2nd	173.4	-64.9	-483	-148.6	-222.8	68.4	573.7	77.5	479.7
3rd	-100.4	-179.7	99.5	-104.2	-176.1	94	-107.7	-86.7	-70.7
4th	63.9	22	-58.7	121.8	53.3	17.8	-13.8	-7.7	83.3
5th	-1.1	-18.2	-29.6	13.1	18.2	5.7	-29.6	-37	-13.5
6th	-25.7	-1.3	14.8	10	26.3	3.8	-21.6	-7.6	-20.9
7th	-4.2	-7.4	41	2.7	-6.8	3.9	3.4	-7.9	6.8
8th	-7.6	-43	-212.2	-195.2	3.3	-39.2	-215.5	-214.7	-176.5
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Pitch Link, lb
4/36	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 4, r/R=0.400	Blade 1	Blade 1
MEAN	-995.2	-428.8	0	-1232.6	-539.9	-24.6			
RMS	1514.9	46	0	5382.2	37.1	25.6			
1/2 P-P	2779.5	127.2	0	8254.1	76.2	40.1			
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	1211.4	-1523.7	-3.4	-1.2	0	0	3722.9	6608	7.7
2nd	198.2	-49.7	44.9	15.5	0	0	-486.1	-112.2	-31.2
3rd	207.3	138	14	31.6	0	0	-116.8	62.6	14.4
4th	639.5	-468.5	15.8	4.9	0	0	-13.3	57	13.7
5th	53.6	87.4	7.9	5.7	0	0	13.9	-2	-0.8
6th	28	-8.5	-3.2	0.2	0	0	51.2	15	-2.3
7th	4.8	15	-3.9	-3.4	0	0	-12.2	27.6	-2.8
8th	74.4	79.5	0.4	3.6	0	0	-172.6	-221.9	-4

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325	
MEAN	3358.5	2446.1		1283.6		0		824.3		739.8	
RMS	240.1	140.5		83.8		0		132		395.3	
1/2 P-P	545.3	303.8		194.5		0		273.5		730.3	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	31.7	-148.8	-21.8	-81.4	-44.2	-71.8	0	0	-118.8	-91.1	-483.6
2nd	-208.9	70.6	-129.8	41.6	-58.5	17.8	0	0	-5.6	2.3	-14.5
3rd	165.6	-82.3	94.1	-43.6	8.3	-12.3	0	0	-72.1	28.3	-172.9
4th	41.9	9.5	26.2	1.5	13.4	-12.6	0	0	-15.9	-22.3	-42.8
5th	-26.6	-5.1	-9.3	-2.1	10.4	2.5	0	0	30.1	10.7	-2.6
6th	17.5	5.7	4.9	2.5	-11.9	-3	0	0	-30.8	-8	19.1
7th	8.1	-2.5	3.4	-2.6	-2	-3.2	0	0	-11.5	-2.6	5.7
8th	-2.7	-25.8	-10.7	-13.7	-19.5	5.3	0	0	-18	25.5	32.6
RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.725		Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Chord Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570	
MEAN	649.4	124.5		-629.5		-1120.3		-2413.5		-443.2	
RMS	693.2	658.8		453.8		5131.8		1151.4		48.1	
1/2 P-P	1136.7	1125.4		909.5		7837.4		2331.8		124.9	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-910.5	-681.5	-81.8	-133.7	-13.8	-6076.4	3900.8	-311.8	1065.7	8	6.7
2nd	-255.8	-86.3	-581.6	-102.9	-560.3	-50	558.3	78.8	184.4	-59.8	41
3rd	-102.1	110.6	-30.6	103.2	-99	49.4	110.1	119.7	-242	-151.1	-14
4th	28.7	60.8	120	94.9	192.3	88.2	-134.6	42.3	971.1	-433.1	21.6
5th	-51	-22.5	-57	-25.1	-13.4	-5.8	43.9	20.6	-57.7	-56.9	-9.9
6th	42.7	10.7	6.1	-7.7	-53	-32.8	-39.8	-18.3	56.2	18.6	-3.7
7th	10.6	-1.5	-6	-3	-18.5	-2.1	26.6	44.5	-25	-42	3.8
8th	-26.4	-0.5	-29.7	41.4	-5	63.2	-187.9	-240.8	201.6	247.8	-1.3

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb	
	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.174	Blade 3, r/R=0.325	Blade 3, r/R=0.325
MEAN	1815.1	-1705.4	1922.7	-1940.2	753.4	239						
RMS	303	3461.1	296.5	3460.5	2893.2	1567.6						
1/2 P-P	630.1	5250.8	619.2	5122.9	4380.4	2842.8						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	203.4	-268.4	-2823.6	-3980.7	251.8	205	4003.2	-2782.7	3372.8	-2286.6	1575.2	-1447.1
2nd	-6.6	-84.8	-269.6	-57	-16.7	75.3	336.8	103	296.4	85.3	226.7	-10.1
3rd	-131.5	-189	66.6	-144	-191	135.2	-121.1	-82.5	-75.7	-55.7	115.8	53.4
4th	66.9	22.9	-78.7	14.9	63.1	30.4	-19.5	-12.8	73.3	-36.4	451.5	-183.7
5th	-49.3	4.6	-24.7	22.7	-7.5	-45.8	12	12.6	8.8	6.7	-12.9	-23.4
6th	-9.4	3.7	7	-1.8	10.8	-2.6	15	19	8.9	16.5	6.9	-16.4
7th	-9.2	-23.9	27.5	-18.5	-22.1	6.3	-10.3	-30.4	-3.2	-28.3	4.7	-16.7
8th	11.3	-4.9	34.7	-43.2	8.2	2.6	27.9	-57.9	31.5	-43.3	10.7	-38.6
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Blade 4, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Torsion, in-lb	Pitch Link, lb	Pitch Link, lb	
41/35	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.400	-431.4	0	0	-3692.3	-3692.3	-538.2	-53.4		
MEAN	-1423.1	1033.8	31.2	31.2	0	0	3501	3501	30.5	19.9		
RMS	1849.5	1849.5	70.1	70.1	0	0	5186.7	5186.7	70.4	33.4		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	620.6	-1067.7	10.3	-4.3	0	0	2720.5	4119.9	17.3	-7.7	-17.6	-21.7
2nd	189.9	-56.8	6.7	-7.1	0	0	-2782	-83.1	-4.5	11.4	-0.6	0.5
3rd	250.3	103.1	32	14.9	0	0	-88.3	115.2	12.2	-20.7	0.5	0.5
4th	625.5	-281.1	13.2	12.3	0	0	-34.7	0.6	18.5	16.6	0.1	-0.4
5th	-56.8	-34.9	-0.8	-0.9	0	0	29.8	-1.5	-2.8	-3.2	0	-0.1
6th	-3.6	-16.3	-1.6	-3.6	0	0	3.5	-22.8	0.7	2.7	-0.1	-0.2
7th	14.4	18.4	-0.3	-0.9	0	0	4.4	-14.3	0.3	-0.5	0.2	0
8th	-18.3	23.5	-0.3	1.1	0	0	37.8	-39.6	-2.3	1.2	-0.2	0.1

RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.144	Flap Bending, in-lb Blade 1, r/R=0.167	Flap Bending, in-lb Blade 1, r/R=0.215	Flap Bending, in-lb Blade 1, r/R=0.280	Flap Bending, in-lb Blade 1, r/R=0.325	Flap Bending, in-lb Blade 1, r/R=0.570
41/35						
MEAN	1860.9	1510.8	911.6	0	693.6	613.2
RMS	325	215.7	133.1	0	163	420.5
1/2 P-P	642	406.2	268.9	0	365.6	723.9
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-347.1	-170.1	-249.3	-105.4	-144.4	-91.4
2nd	-1.8	76.1	-7.7	47.2	-23.8	-496.3
3rd	185.3	-114.1	104.4	-60.2	3.8	-185.8
4th	60.8	26.4	34.9	11.6	10	-56.7
5th	-1.9	44.1	-0.2	17	5.9	91.6
6th	10.2	0	3.9	0.3	-5.3	-95.8
7th	23.4	-4.7	4.8	-1.4	-20	-95.8
8th	6.6	-0.1	2.6	-4.1	-1.9	-52.4
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800	Flap Bending, in-lb Blade 1, r/R=0.900	Chord Bending, in-lb Blade 1, r/R=0.144	Chord Bending, in-lb Blade 1, r/R=0.570	Torsion, in-lb Blade 1, r/R=0.400
41/35						
MEAN	642	206.4	-524.3	-3782.2	-2740.9	-444.2
RMS	728.8	723.6	493.1	3454.9	904.3	34.5
1/2 P-P	1211.6	1245.9	1020.8	5171.7	1840.4	83.6
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-904.4	-128.1	-663.7	-51.8	-62.3	-3.3
2nd	-421.6	-80.1	-731.1	-77.6	-583.3	-10.5
3rd	-113.6	79.7	-65.6	58.6	-205.4	53.4
4th	46.3	55	143.6	70.1	195.2	2.5
5th	-8.2	103.8	12.8	129.9	94.3	98.6
6th	21.4	3.8	5.9	-8.5	-47.8	7.4
7th	16.2	-10.2	-48.7	3.6	-92.7	17.6
8th	-0.3	-9.7	-11	-17	-4.6	-15.3

RUN/POINT		Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
		Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN		362.2	-3330.9	444.7	-3607.8	-732.5	-377.2	
RMS		334.1	2297	319.4	2301.7	1918.5	1118	
1/2 P-P		647.1	3663.2	629.2	3606.7	3023.6	2149.9	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	239.5	-282.6	-2021.4	249.4	233.2	2573.3	-1970.1	2164.4
2nd	-67.7	-65.2	-147.5	-64.9	76.8	64	125	116.5
3rd	-157.1	-211.2	39.8	-143.5	-219.2	144	-122.6	-20
4th	67.5	19.1	-101.5	68.5	69.5	13.7	-6.7	-2.8
5th	-18.4	-27.3	-20.7	73	38.3	-12.3	-53.7	-25.9
6th	-9.6	-3.6	16	-16.7	8.9	3.8	-8.6	-2.2
7th	-5	-19.6	5.1	14.7	-16.1	-4.6	-23.6	3.1
8th	3.5	14.9	98.7	39.1	5.1	17.5	99.8	49.4
41/34	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Torsion, in-lb	Pitch Link, lb	
	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1	
MEAN	-1628.5	-422.8	0	-5291.1	-518	-71.8		
RMS	879.5	31.2	0	2379.2	29.7	12.2		
1/2 P-P	1761.5	59	0	3697.2	62.2	22.2		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	365.1	-776.8	-4.6	1.7	0	2014	2677.9	11.2
2nd	145.4	-40.2	-26.5	-11.1	0	0	-148.9	-54.7
3rd	220.1	148.6	22.3	17.8	0	0	-46.8	122.2
4th	697.7	-417.1	8.9	10.4	0	0	-38.4	11.8
5th	147.3	44.5	2.6	3	0	0	44.5	-65.5
6th	14.5	-11	1.3	-1.7	0	0	12.3	9.1
7th	11.9	3.6	1.3	1.6	0	0	-15.6	8.8
8th	-38.4	-21.5	0	-0.9	0	0	89.2	68

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
4/1/34													
MEAN	424.3		617.7		550		0		564.5		425.6		
RMS	344.4		223		127		0		163		393.2		
1/2 P-P	647.7		412.6		254.1		0		358.7		731		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-354.6	-198.6	-247.5	-128.4	-143.8	-88.1	0	0	-142	-85.6	-431.9	-149.7	
2nd	82.7	50.7	43.2	32.4	-7.8	10.1	0	0	-44.7	-4.1	-167.9	-55.3	
3rd	195.5	-128.7	108.1	-67.3	0.5	-9.6	0	0	-105.8	57.4	-229.3	99.7	
4th	65.9	13.3	37.1	5.1	7.3	-8.4	0	0	-36.9	-19.2	-51.6	-17.1	
5th	-38.5	15.9	-14.3	7.4	17.1	-1	0	0	50.6	-9.6	-4.1	-6.2	
6th	4.6	0.4	1.7	-0.9	-4	-4	0	0	-11.1	5.1	2.2	9	
7th	14.3	5.1	-0.6	2	-19.7	-4.4	0	0	-37.8	-8.5	37.8	22.9	
8th	6.3	-1	6.8	0.4	6.5	-0.6	0	0	-0.9	-0.8	-2.2	-0.3	
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725		Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Flap Bending, in-lb Blade 1, r/R=0.900		Chord Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400
4/1/34													
MEAN	456.3		133		-394.4		-5540		-2770.4		-434.3		
RMS	631		692.4		452.6		2302.2		894.1		35.3		
1/2 P-P	1148.1		1258.9		923.3		3615.8		1889.6		70.8		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-690.4	-127.2	-498.5	-85.4	-50	-7.1	-2463.3	2104.9	67.4	602.5	5.9	8.9	
2nd	-514.3	-56.2	-805.9	-15.4	-552.8	-10.3	149.6	79.6	188.6	-.82	-29.1	-11.8	
3rd	-102.4	87.6	-31.1	31.3	-194.3	42	123.9	48.7	-250.1	-136.6	-22.2	-20.5	
4th	43.8	43	145	77.1	183.8	34.8	-101	48.8	902.2	-470.5	15.5	9.9	
5th	-90.2	24.7	-109.9	44.1	10	44.7	47.6	12	-115.6	-38.3	-2.7	-1.9	
6th	14.1	9.4	18	-6.3	-25	1	11	-1.6	-19.2	16.8	1.9	-1.6	
7th	12.8	-3.3	-48	-13	-94.1	-26.5	7.9	22.7	-5.9	-25.9	0.4	-2.3	
8th	10.3	-1.4	1.1	-2.4	-3.4	0.2	94.1	64.3	-95.2	-61.8	1.1	-1.8	

RUN/POINT		Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
41/33		Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN		-282.8	-3994.5	-211.7	-4293.2	-1323.8	-1161.5	792.9	-756.3
RMS		290.7	1679.2	286.9	1771.5	1478	24.5	138.6	-29.2
1/2 P-P		568.7	2820.5	532.9	2829.3	2377.6	107.3	-25.7	-221.8
HARMONIC	COSINE		SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st		157.8	-252.3	-1395.2	-1893.5	242.8	154.7	2040.9	1715.4
2nd		-58	-51.4	-121.9	-32.9	54.8	68.7	153.1	22.2
3rd		-135.5	-212.8	43.5	-115.6	-219.3	119.1	-90.1	-40.2
4th		85.4	17.4	-139.1	46.3	92.5	16.3	-14	12.5
5th		4.9	-24.6	-35.5	47.6	24.7	21.2	-67.9	-42.1
6th		-11.7	-0.9	8.7	-13.1	8.9	0.2	-4.6	11.8
7th		3.1	-7.6	3.1	15.1	-6.9	-1.8	-1.1	9.2
8th		3.2	37.5	101.3	131	-9	26.8	102.1	138.7
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Pitch Link, lb
41/33		Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1	
MEAN		-1690.4	-413.6	0	-5947.8	-504.2	-76.6		
RMS		824.9	34.4	0	1771.4	32.5	10.9		
1/2 P-P		1680	66.3	0	2860.4	65.6	20.9		
HARMONIC	COSINE		SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st		286.1	-575.4	-4.7	4	0	1402.6	2053.5	7
2nd		137.9	-47.3	-29.3	-13.7	0	0	-133.6	-20.7
3rd		182.9	139.7	24.7	14.8	0	-48.4	97.5	26.9
4th		828.9	-352.8	10	13.9	0	-55.6	19.4	19.2
5th		151.9	114.9	2.8	8	0	65.6	-57.7	-14.6
6th		10	-21.5	2.2	-2.5	0	0	13.9	13.2
7th		-1.7	-0.4	1.9	0.9	0	4.2	7.7	10.7
8th		-33.3	-53.5	2.1	-1	0	0	80.5	3.2
							154.4	1	-8.8
									-11.9
									2.1
									0

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
41/33		RMS		MEAN		RMS		MEAN		RMS		MEAN	
		-203.9		227.9		390.8		0		493.4		328.9	
		318.1		206.2		115.5		0		146.7		357.7	
		570.6		362.3		220.1		0		317		691.2	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-347.5	-122.5	-240.3	-82.9	-138.5	-66	0	0	-133.8	-75.9	-388.4	-139.8	
2nd	63.3	51.4	32.6	33.4	-8.5	12.3	0	0	-36.2	-0.7	-139	-52.4	
3rd	203.5	-97	112.7	-49.1	4.6	-7.8	0	0	-101	41.4	-227.5	68.8	
4th	87.1	17.4	48.9	8.2	8.8	-7	0	0	-46.3	-21.2	-65.5	-26.2	
5th	-11.8	-9.4	-4.1	-3.5	5.1	3.9	0	0	14.2	17.2	0.6	0.2	
6th	8.2	0.3	3.2	-0.2	-5.5	-1.2	0	0	-15.5	-0.6	10.7	7.6	
7th	6.6	4.5	-1.2	2.1	-12.1	-2.7	0	0	-21.7	-6.2	21.2	15	
8th	-4	6.1	6	5	20.8	0.5	0	0	22.1	-6.1	-31.9	-7.1	
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725		Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Flap Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Chord Bending, in-lb Blade 1, r/R=0.325		Torsion, in-lb Blade 1, r/R=0.400
41/33													
		364.1	66	629.7	437	833.5	-345.4	-6248.8	-2773.6	-424.9			
		561.9		1153.3			1732.7		896.6	39			
		1001					2842.9		1875	77.2			
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-600	-121.7	-411.2	-80.8	-40	-11.6	-1875.7	1541	71.2	456.9	4.9	4.8	
2nd	-467.8	-54.7	-743.9	-33.9	-514.7	-16.2	147.1	34.2	159.5	-57.4	-33.9	-13	
3rd	-131.5	72.2	-85.9	37.5	-211.5	32.2	101.1	51.3	-215.2	-140.7	-24.7	-19.1	
4th	62.3	45.6	197.7	77.2	208.2	43.5	-121.6	47.7	1049.1	-345.5	17.7	14.7	
5th	-25.1	-34.2	-48.1	-29.3	63.5	-0.8	48.5	35.9	-88.8	-90.2	0.1	-8.7	
6th	23.7	6.2	17.6	-11.9	-33.5	-8.7	0.9	-5.9	-2.8	12.5	1	-1.7	
7th	5.6	-2	-21.3	-2.6	-70.5	-19.3	9.8	18.1	-0.5	-19.4	-2.1	-0.7	
8th	21.3	1.6	29.9	-13.1	41	-9.6	84.5	157.2	-87.1	-154.9	2.4	-2.6	

RUN/POINT		Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
		Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.174	Blade 3, r/R=0.325	
MEAN	-973.1	-4642.9	-917.8	-4963.5	-1926.2	-831.1					
RMS	229.4	1048.7	227.7	1154.8	964	694.7					
1/2 P-P	432.4	1805.4	392	1867.9	1584.5	1485.3					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	31.5	-196.1	-721.9	-1267.9	184.4	30.9	1427.6	-761.4	1196.9	-620.2	
2nd	-53.6	-26.6	-88	-28.8	55.7	54.9	112.6	8.3	104.9	11.8	
3rd	-134.1	-179.5	30.5	-92.5	-184.3	124.5	-71.2	-23	-47.6	119	
4th	86.5	-0.4	-137.5	54.7	96.1	2.6	-17	27.8	95.4	-42.2	
5th	-49.7	-17.5	30.1	67.1	43.6	-17	-81.1	27.7	-38.2	69.6	
6th	-22	8.2	29.9	-6.6	14.8	-0.1	-8.6	-1.2	-8.2	-301	
7th	0.3	-8.5	-19.9	-4.5	-1.9	-2.1	-20.5	-12.9	-14.4	-5.9	
8th	-2.3	-0.2	25.1	6.9	3.4	16.3	18.1	4.7	16.9	-16.7	
										-10.2	
										-16.7	
										-7.7	
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Torsion, in-lb	Pitch Link, lb	
		Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 4, r/R=0.400	Blade 1	
MEAN	-1742.9	-393.8	0	-6569.1	-478.8	-78					
RMS	735.2	33.9	0	1151	32.9	9.8					
1/2 P-P	1567.1	74.2	0	1913.2	63.5	20.9					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	189.9	-339.5	-2.4	7.9	0	0	724.5	1441.6	1.9	-8.9	
2nd	121.9	-50.1	-30.8	-13.8	0	0	-95.4	-9.7	28.2	-8.9	
3rd	169.9	95.6	24.1	8.4	0	0	-35.3	81	16.5	2.4	
4th	773.2	-468.1	12.2	12.5	0	0	-49.3	25.1	17.6	0	
5th	195	-44.5	1.4	4.8	0	0	1.6	-73.6	-4.7	0.6	
6th	23.1	-2.2	0.8	-3.5	0	0	11	8.7	0	-0.4	
7th	6.4	15.4	1.6	0.3	0	0	-16	-18.9	0.9	-0.1	
8th	-5.9	-6.8	0.3	-1.6	0	0	18.1	13.5	0.7	0	

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb							
		Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.167	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.325
MEAN	-898.3		-205		213.3		0		428.5		241.2
RMS	265.6		171.3		100.4		0		136.5		319.4
1/2 P-P	432.8		295.6		208.6		0		292.4		596.6
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-291.3	7.5	-203.4	-5	-123.5	-29	0	0	-125	-58.5	-348.2
2nd	59.3	35.7	30.3	23.7	-8.8	9.8	0	0	-34.2	1.8	-126.1
3rd	171.7	-104.8	96	-53.9	4.8	-7.1	0	0	-83	45.9	-196.8
4th	86.6	7.5	48.5	3.4	7.7	-6.2	0	0	-47.4	-13.2	-64.9
5th	-22.8	39.6	-8.5	17.2	12.1	-9.3	0	0	32.6	-38.1	-2.5
6th	19.2	-2.9	8.4	-0.9	-6.9	-1	0	0	-25.6	2.3	13.3
7th	5.3	-2.4	0	-0.7	-6.7	1.2	0	0	-15.4	3.1	15.3
8th	7.7	2.6	2.6	0.5	-3.2	-4.3	0	0	-12	-6.8	10.7
RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
41/32	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.400	Blade 1, r/R=0.400
MEAN	268.7		16.1		-278.5		-6938.1		-2749.7		-404.6
RMS	498.5		572.2		430.9		1124.7		818.3		37.7
1/2 P-P	899.5		1044.1		929.9		1887.8		1667.3		72.6
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-512	-93.5	-335.5	-52.1	-21.6	11.3	-1292.9	889.9	83.9	289.1	3.6
2nd	-421.3	-33.9	-668.7	-13.6	-477.5	2	115.5	22	140.9	-48.4	-35.5
3rd	-136.6	82.4	-131.3	57.3	-236.5	39.7	81.8	34.4	-176	-94.9	-24.9
4th	72.9	34.1	219.5	42	218.8	20.4	-112.4	69.9	953.9	-474.7	19.1
5th	-53.2	74.2	-61.8	105.1	64.4	76.8	57.2	-30.6	-126.1	66	-1
6th	39.9	-2	19.2	-17.1	-28.4	-6.3	-1.5	11.7	0.6	-9.9	1.8
7th	7.9	-3.2	-11.4	2.8	-66.1	0	-14.9	-5.8	20.2	3.2	-0.9
8th	0.5	-6.7	-20.5	-9.4	-15.9	-3.3	26	13.4	-28.6	-13.3	-0.1

RUN/POINT		Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb	
		Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	-2328.1		-5768.4		-2298.8		-6113.1		-2945.1		-1232.5
RMS	245.3		445		255.8		540.9		451.8		495.9
1/2 P-P	480		917.6		478.5		1054.3		868.8		1031.1
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	176.6	-15.7	-459.4	-363.7	-13	197.9	540.8	-504.9	457.1	-408.9	207.6
2nd	-81.1	-51.7	4.5	-7.6	74.7	71	14.7	-10.5	23.4	-3.1	63.9
3rd	-152.1	-208.3	35.1	-44.5	-211.8	148.3	-29	-34	-20.6	-11.2	51.3
4th	71.8	3.1	-112.9	68	81	4.1	-3.2	14.5	94.3	-31.6	52.7
5th	-54	-52.8	47	73	41.5	-60.9	-73.5	65.7	-35.6	31.7	-247.2
6th	-16.6	2.4	12.4	-4.7	20.2	-1.8	-5.2	-0.2	-6.4	2.3	-79.4
7th	-1.1	-15.7	-18.3	-9.8	-16.2	1.4	-26.4	-11.2	-20.2	-15.9	-1.9
8th	5	33	58.1	48	5.6	19.1	54.5	50.6	46.9	52.1	23.2
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
4/1/31	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 4, r/R=0.400	Blade 1	
MEAN	-1835.1		-355.7		0		-7655.4		-429		-76.2
RMS	620		35.6		0		512.6		31.3		6.8
1/2 P-P	1309.6		83.6		0		1038.8		65.6		15.1
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	64.6	-235.9	-2.6	15.4	0	0	501.2	483.6	-5.9	-5.4	-4.7
2nd	76.4	-25.9	-30.4	-15.9	0	0	9.7	14.2	28.7	14.8	-7.2
3rd	103.3	74.8	30	7.4	0	0	-40.2	32.6	14.9	-22.1	0.1
4th	684.1	-382.2	1.2	7.7	0	0	-53.3	17.8	6.1	3.2	0.8
5th	181.3	-156.4	3	-2.1	0	0	-43.5	-77.7	2.8	2.7	-0.2
6th	11.4	-5.3	3.1	-3.5	0	0	9.6	7.4	-1.4	2.5	0
7th	15.6	8.7	-0.8	2	0	0	-28.2	-13.2	2.7	0.2	0.1
8th	-15.9	-22.3	-0.2	-0.3	0	0	47	55.6	0.7	-2.9	-0.2

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
MEAN		-2244.4		-1041.9		-129.1		0		305.4		52	
RMS		234.3		139.2		75.2		0		133.7		262.8	
1/2 P-P		484.8		293.3		152.6		0		274.8		514.9	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-103.9	-143.2	-80.4	-96	-69.7	-61.5	0	0	-93	-56.4	-234.2	-91.5	
2nd	92.5	46	50.6	30.1	0.7	10.4	0	0	-34	-3.3	-111	-42	
3rd	201.3	-127.2	112.8	-65	6.9	-8.1	0	0	-94.6	54.6	-217.4	93.5	
4th	69.2	5	38.7	2.7	5.6	-4.8	0	0	-38.2	-8.1	-58.7	-11.5	
5th	-42.6	56	-16.9	23	17.5	-14.7	0	0	54.2	-57.3	-1.8	-6.7	
6th	15.3	-1.8	6.6	-0.9	-6	-1.2	0	0	-20.5	1.9	11.3	4.9	
7th	13.2	-1.1	3.5	-0.4	-8.8	-0.6	0	0	-24.5	0.5	19.1	7	
8th	9.3	14.5	4.3	3.7	-0.8	-13.8	0	0	-11.5	-25.6	5.1	30	
RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.725		Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Chord Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400	
MEAN		26.9		-131		-182.5		-8134.8		-2728.6		-365.2	
RMS		361.9		426.7		342.9		548.6		734.9		36.5	
1/2 P-P		703.9		808.6		711.8		1060.8		1504.3		78.3	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-258.7	-96.1	-166.8	-75.7	2.1	-15.7	-437.1	598.6	59.9	197.8	3.2	-7	
2nd	-337.6	-5.3	-458.6	12.8	-334.2	11.9	12.3	11.9	100	-18.7	-34.2	-14.1	
3rd	-178.7	89.8	-215	87.7	-253.4	68.8	39.8	40.2	-121.6	-80.7	-28.9	-13.3	
4th	61.4	23.2	177	13.3	151.8	11.1	-93.8	59.6	868.8	-417.9	8.3	5	
5th	-101.6	114.4	-82	150.2	50.6	97	80.6	-54.1	-180.5	110.8	-5.5	5	
6th	39.2	-10.4	9.6	-8.1	5.7	-4.7	8	4.5	-13.2	2.1	1.6	-2.7	
7th	18.5	1.4	-15.2	-14.3	-84	-5.8	-18.8	-4.9	17.7	4.4	1	-2	
8th	-2.6	-9.6	-14.6	-31.6	-32	-34.4	53.4	55.4	-56	-50.8	0.2	-1.3	

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
41/30	-3574.7	-6719.5	-3553.9	-7042.4	-3764.7	-1530.1	
MEAN	274.3	385.7	286.2	299.3	256.6	358.7	
RMS	561.1	826.5	592	710	518.4	705.9	
1/2 P-P							
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	SINE
1st	71.7	188	95	481.3	-220.8	76.4	-346.6
2nd	-193.7	2	145.1	-14.2	194.6	13.5	-145.6
3rd	-154.3	-202.7	32.2	7.6	-203	151.3	18.9
4th	67	-7.2	-87.1	56.3	67.1	-9.1	-14.6
5th	4.7	-27.3	-24.3	41.6	23.5	4.8	-41
6th	-20.5	7.9	21.2	4.5	16.7	-10.8	-0.7
7th	-0.4	-14	-10.2	-18.8	-12.9	-0.1	-23.5
8th	-1	-31	-7.9	-36.4	-1.7	-27.3	-16.9
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1	
41/30	-1934.9	-321.3	0	-8571.7	-382.5	-67.7	
MEAN	475.3	30.7	0	298.1	27.3	6.4	
RMS	891.9	66.4	0	675.6	56.1	14.6	
1/2 P-P							
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	SINE
1st	-103.3	-19.2	-6.4	17	0	-35.9	-349.8
2nd	26	-17.5	-31.2	-12.4	0	0	9.3
3rd	56.7	46.9	16.9	2.2	0	162.7	-16.7
4th	554	-323.9	-7.9	-2.1	0	-34.6	8.8
5th	82.2	61.1	1.4	-1.8	0	-39.7	18.9
6th	10.3	-3	1.9	-2	0	30	-37.5
7th	15.8	16.3	-1.7	3	0	4.8	-0.8
8th	10	20.6	0.4	2.5	0	-29.6	-19.3

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
		Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.167	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.325
MEAN	-3481.9		-1804.2		-436.9		0		200.9		-116.4
RMS	245.2		136.2		48.5		0		113.1		216
1/2 P-P	534.1		281.1		123.6		0		296.8		420.3
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	103.6	-44.7	54.5	-32.4	-6.5	-25.9	0	0	-51.7	-29.5	-58.4
2nd	203.6	-8.4	117.8	-1.3	25.3	-0.4	0	0	-42.5	0.2	-164.2
3rd	201.6	-136	112.6	-69.6	8.3	-8.5	0	0	-92.7	56.7	-210.9
4th	61.8	-5.1	33.8	-2.4	1.5	-2.9	0	0	-39.6	1.5	-49.4
5th	-23.1	-11.5	-9.5	-4.5	5.5	5.2	0	0	22.3	20.3	0.1
6th	20.9	-9.7	9.1	-2.7	-6.7	4.1	0	0	-25.3	15.1	14.9
7th	11.3	0.9	4.4	-0.4	-3.7	-2.4	0	0	-17.1	-2.8	12.9
8th	16.3	-29	3	-3.6	-17	28.8	0	0	-31.9	50.3	55.5
RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
41/30		Blade 1, r/R=0.725		Blade 1, r/R=0.800		Blade 1, r/R=0.900		Blade 1, r/R=0.144		Blade 1, r/R=0.570	
MEAN	-199.2		-305.4		-159		-941.5		-2753.9		-329.3
RMS	266.8		286.7		234.5		320.2		564		29.5
1/2 P-P	503.2		591.9		561.2		718		1120.1		59.5
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	24.3	-51.8	63.2	-44.3	72.1	-19.4	385.4	43.9	66.6	53.9	6.2
2nd	-255.9	26.5	-263	39.6	-164.6	28.4	-139.9	24.1	66.1	-13.7	-31.8
3rd	-221.6	115.8	-225.8	113.5	-189.1	81.8	-7.6	37.8	-63.7	-44.1	-18.9
4th	54.9	-1	94.5	-3.2	70	4	-68.4	49.7	667.5	-367.5	-0.8
5th	-29.1	-33.3	-5	-47.9	40.5	-40.4	32.4	34.9	-63.1	-77.4	-2.8
6th	42.8	-14.8	33.2	-7.1	36.2	-3.8	-3.4	20	7	-29.3	2.7
7th	17	-8	-14.8	-7.2	-44.5	2.4	-16.3	-10.7	11.6	8.2	1.6
8th	-13.4	18.8	-50.3	72.9	-76.2	80.5	-9.6	-40	9.6	43.2	-0.4

RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	3410.7	1105.1	3552.4	408.7	2747.1	1078.2		
RMS	416.9	3857.1	422.9	3889.1	3258.7	1763.3		
1/2 P-P	752.3	6074.9	790.1	6216.8	5237.9	3340.3		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-139.9	-438.9	-2866.7	-429.3	-168.9	4680.1	-2768.6	3941.1
2nd	188.3	-105.3	-542.8	52.8	-232	83.5	641.4	-55.1
3rd	-114.3	-230.6	117.1	-148	-232.9	99.3	-150.7	-107
4th	80.4	1.1	-103.7	130.5	67.2	-2.9	-25.5	23.2
5th	-18.8	-59.3	-15.8	75.9	55.7	14.3	-55.6	-27.7
6th	-27.7	-4.8	42.5	-0.7	20	11.9	-14.6	-8.3
7th	-5.5	-11.1	20.1	-5.7	-12.8	1.8	-19.4	-28.4
8th	-8.5	-58.9	-244.3	-224.6	-4.1	-37.7	-250.7	-238.3
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Pitch Link, lb
34/38	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1
MEAN	-1031.9	-417.2	3457.4	-723.4	-530	12.3		
RMS	1280.4	61.8	405.7	3819.4	46.6	40.4		
1/2 P-P	2640.7	150.6	832.7	6101.8	109.8	71.2		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	691.7	-1070.4	23	2.4	242.9	368.1	2424.1	4765.8
2nd	213.1	-64.5	52.1	20.7	190.7	-103.5	-585.3	76
3rd	262.3	221.5	40.8	29.9	104.8	232.7	-116.5	112.7
4th	770	-882.1	26.5	15.2	67.4	6.4	-22.3	92.8
5th	142.7	101.2	6.7	6.2	8.9	36.5	27.8	-49.5
6th	38.3	2.3	-5.4	1.9	-18.5	-1.7	19.5	28.3
7th	22.2	23.7	-3.4	-1.9	7.7	14	-46.6	-12
8th	91.8	78.6	-1.3	4.6	-16.5	-60	-220.9	-233.2

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
		Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.570	Blade 1, r/R=0.570	
MEAN	3376.9	2456.1	1297.1	959.5	825.9	796.5					
RMS	503.1	328	155.4	157.4	170.1	445.8					
1/2 P-P	912.7	592.1	290.5	393	405.7	893.6					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-514.4	329.9	-358.2	204.8	-188.3	50.5	-169.7	-29.9	-168.5	-544.6	
2nd	-208	88.1	-130.1	51	-60.6	19.7	-21.5	5.2	-5.3	-8.5	
3rd	227.5	-99.8	128.1	-52.6	10.2	-16.5	-68.8	18.1	-100.7	-231.5	
4th	64.3	-3.8	39.2	-7.2	16.8	-14.8	-10.4	-18.4	-25.1	-62.6	
5th	-56.1	8.2	-21.9	4.2	19.8	2.9	57.8	2.3	66.5	0.1	
6th	20.4	4	9.1	0.5	-7.1	-8.4	-19.8	-13.7	-24.2	-2.1	
7th	9.3	-1	2.6	-2.6	-6	-6.6	-12.8	-8.5	-15.3	-5.8	
8th	4.9	-46.5	-10	-17.7	-33.1	23.2	-44.6	59.3	-34.1	63.9	
RUN/POINT	Flap Bending, in-lb	Flap Bending, in-lb	Flap Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Torsion, in-lb		
34/38	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570				
MEAN	679	105.9	-667.4	-641.6	-2446.5	-438.4					
RMS	737.6	672.6	461.9	3575.8	1107.4	55.8					
1/2 P-P	1375.2	1317.5	1031.2	5744.4	2351	145.9					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-968.4	-665.8	-42.3	-102.7	-13.8	-4309.6	2514.9	77.3	744	-10.4	
2nd	-250.5	-94.5	-594.4	-84	-538.8	-17.4	626.6	-115.1	189	-83.2	
3rd	-137.2	134.9	-58.5	111.5	-137.9	55.5	146.7	125.6	-336.6	-236.1	
4th	43	64.8	157.3	102.1	219.7	93.9	-138.4	37.6	983.1	-714.4	
5th	-127.5	3	-152.6	12	-60.4	19.7	78.3	12.2	-111.2	-50.1	
6th	39.4	7.7	7.5	-12.1	-63.3	-24.9	-10	0.2	16.1	-0.7	
7th	7.6	-0.4	-20.6	-10.5	-34.9	-19.8	-13.2	31.4	-1.4	-36.1	
8th	-35	10.9	-59.8	99.4	-40.4	125.9	-228.4	-254.5	237.4	257.7	

RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	1788.5	-1638.5	1928.1	-2158.4	488.9	10.4	
RMS	359.9	2940.9	358.9	2908.5	2427.2	1306.4	
1/2 P-P	586.6	4541.8	599	4373.3	3654.2	2418.2	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-59.5	-381	-1996.5	-3630.2	371.9	-71.2	3602.7
2nd	-40.7	-74.1	-222.9	-26.9	45.2	77.4	247.4
3rd	-175.6	-242.3	62.6	-164.8	-258.9	162.3	-120.9
4th	73.4	16.2	-108.3	43.3	67.7	13.8	-4.1
5th	-73.4	-24.3	10.3	5	44.5	-59.5	-26.3
6th	-8.2	-5.6	30	-13.9	1.6	7.5	-7.2
7th	-9.7	-24.9	8.7	-33.8	-25.5	0.4	-26.8
8th	7.5	6.1	55	-11.6	3.3	14.3	44.3
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Pitch Link, lb
	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1
MEAN	-1558.3	-426.8	0	-3379.3	-525.4	-21.9	
RMS	958.4	30.4	0	2967.3	27.7	26.9	
1/2 P-P	1873.4	61.6	0	4522.6	67.7	43.8	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	503.1	-793.4	7.6	-8.7	0	0	1858.7
2nd	196.4	-95.8	-10.5	-8.4	0	0	-230.8
3rd	350.6	141	30.4	16.1	0	0	-81
4th	671.1	-519.4	12.9	8.7	0	0	-21.2
5th	106.5	-72.2	-0.6	-1.1	0	0	-5.5
6th	6.1	-7.8	-2.8	-1.8	0	0	12.9
7th	21.5	22.6	0.4	2.7	0	0	-25.7
8th	-24.1	2.6	0.9	-0.9	0	0	46.7

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RUN/POINT		Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	18/ 8	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.174	Blade 3, r/R=0.325	
MEAN	-3500.1		-5928.1		-3493.4		-6258.1		-3084.2		-947.8
RMS	358.7		649.5		357.2		725.4		596		433.6
1/2 P-P	534.9		1120.2		534.5		1265.7		1029.3		763.7
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	479.2	-68.7	-871.8	231.6	11.7	481.1	-215.4	-984.8	-162.6	-814.4	-88.5
2nd	-125.8	26.1	15.4	-51.8	130.8	-12.8	-46	58.4	-30.8	45.2	8.6
3rd	-29.5	-37.3	-6.1	-12	-36.6	31.5	-10.5	8.3	-5.4	14.1	19.1
4th	15.2	4.3	-28.7	16.2	17.2	6.9	0.9	22.9	17.9	1.7	17.2
5th	54.4	-10.9	-78.6	24.1	15.1	50.5	-45.4	-67.5	-23.7	-34.9	85.4
6th	-8.7	2.1	9.8	-7.8	8.4	1.9	-4.2	1.9	-0.4	2	-68.8
7th	2	5.1	-15.9	20.9	3.3	1.6	0	33.5	-3.9	25.1	34.6
8th	9.7	-7.1	10.3	4.4	9.1	0.2	12.4	0.5	9.1	3.4	108.4
											-0.7
											-0.4
											-0.6
RUN/POINT		Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Pitch Link, lb	
	18/ 8	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1	Blade 1
MEAN	-1669.9		-347		0		-7533.3		-395.1		-97.8
RMS	348.3		55.1		0		691.7		49.8		7.9
1/2 P-P	730.8		98.6		0		1165.8		94.4		17.5
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-57.7	-403.3	-33.8	67.1	0	0	888.5	-363.6	-53.2	-39.4	-5
2nd	26	3.3	-14.9	-3.6	0	0	41.9	-49.3	16.4	2.6	-7.9
3rd	30.6	35.8	11.3	0.5	0	0	18.2	17.1	3.3	-2.6	-0.6
4th	111.7	-115.8	3.4	4.9	0	0	12.5	7.3	5.6	7.4	1.9
5th	82.9	169.8	1.5	-0.5	0	0	91	-15.5	-1	3.2	0.8
6th	12.7	-5.2	0.6	-2.1	0	0	8.4	6.7	-0.7	1.4	0.1
7th	-4.9	-18.9	-0.8	-0.2	0	0	-7.1	31.2	-1.8	0.5	-0.6
8th	-4.9	-2.1	-0.6	0.3	0	0	11.5	7.1	-1.5	0.7	0.7

RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.144	Flap Bending, in-lb Blade 1, r/R=0.167	Flap Bending, in-lb Blade 1, r/R=0.215	Flap Bending, in-lb Blade 1, r/R=0.280	Flap Bending, in-lb Blade 1, r/R=0.325	Flap Bending, in-lb Blade 1, r/R=0.570
MEAN	-2145.9	-981.8	-105.4	339.7	317.1	22.8
RMS	302	185.4	96	108.4	194.7	
1/2 P-P	491	281.7	170.4	216.9	239.7	400.2

HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	145.6	-361	78.1	-231.4	14.3	-130.6	-35	-95.4	-45.1	-96.2	-106.9	-147.2
2nd	75.7	-16.1	42.2	-8	-1.9	-2.4	-34.2	5	-44.8	7.6	-119.2	5.4
3rd	130.3	-73	72.7	-38	2.5	-5.8	-48.5	22.1	-67.2	33.5	-153.6	57.1
4th	17.9	10.4	10.2	5	1.5	-1.4	-7.4	-4.1	-10.9	-5.1	-13.1	-6.5
5th	11.8	-34.1	3.7	-12.9	-8.6	12.6	-20.3	37.7	-23	45.1	4.1	-2.2
6th	10.1	-1.8	5.9	-0.2	-0.6	1.3	-7.9	2.9	-9	2.7	4.7	-2.9
7th	4.1	-2.1	3.5	1.1	2.6	5	-1.4	7.4	-3.4	7.6	1.9	-7.6
8th	12.2	-9.2	2.7	-1.5	-11.1	8.2	-22.9	14.1	-21.6	12.9	27.9	-8.1

RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800	Flap Bending, in-lb Blade 1, r/R=0.900	Chord Bending, in-lb Blade 1, r/R=0.144	Chord Bending, in-lb Blade 1, r/R=0.570	Torsion, in-lb Blade 1, r/R=0.400
MEAN	-120.7	-277.5	-254.7	-7187.3	-2734.5	-380.1
RMS	246.1	268.4	237.5	1005.4	370.6	41.2
1/2 P-P	500.2	564.5	481.4	1606.3	788.4	82.3

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HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-152.3	-143.5	-132.1	-117.1	-24.3	-36.9	-1055	931.6	-149.2	305	24.9	-40.5
2nd	-209.1	29.5	-272.4	36.3	-277.5	19.3	3.4	101.9	71.6	-21.3	-29	-4
3rd	-124.6	75.9	-95.8	77.5	-66.3	70.4	46.1	20.8	-82.9	-52.4	.9	-8.7
4th	23.6	8	61	13.6	104	6.2	-27.3	19.1	226.3	-209.9	-5.4	5.5
5th	55.1	-81.7	63	-99.9	49.6	-68.8	12.9	72.4	-5.3	-157.2	0.8	-5.4
6th	20.2	0.2	13.9	-0.3	-13.8	-1.4	4.3	-3.6	-5.3	7.9	1.3	-0.8
7th	5	1.7	1	9.1	-8.3	11.3	-34.4	4.3	32.4	-9.2	0.1	0.4
8th	-7.1	4.7	-32.9	22.1	-30.8	23.7	-21.1	-30.2	19.9	31.2	-0.4	1.2

RUN/POINT		Flap Bending, in-lb	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
18/ 9		-2281.9	-4983.4	-2261.2	-5298.1	-1165	-2226	-642.2	
MEAN		395	1078.9	406.2	1879.6	1530.2	958.1	636.2	
RMS		647.2	1734.3	674.7				1092.6	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	422.5	312.2	-964.6	-1166.4	-354.7	412.1	1237.7	-1070	1029.8
2nd	-58	9.2	-21.5	-88.9	58.8	-3	1	98.1	4.4
3rd	-89.2	-149.9	19.6	-38.2	-146.5	85.9	-38.4	-13.2	81.5
4th	16.1	13.9	-23.8	44.9	17.7	14.5	7.8	10.3	29.5
5th	32.6	5.2	-57.7	24	-5	31.2	-27.8	-67.1	-13.7
6th	-11.6	1.1	15.7	0.7	8.6	-0.2	-1.5	-4.7	-0.1
7th	-1.6	-4.3	-19.3	12.5	-5.2	1.2	-9.6	6.8	-12.5
8th	6.3	-7.5	-20	-28.6	-0.5	-7.2	-26.1	-30.1	-23.2
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1		
18/ 9		Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 4, r/R=0.144					
MEAN	-1564.3	-375.4	0	-6617.2	-434.8	-40.3	-99.7		
RMS	477.6	47.7	0	1018.6	83.3	83.3	5.5		
1/2 P-P	913.5	88.5	0	1614.5			13.5		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	331.5	-467.1	-25.4	54.7	0	0	939.2	1076.3	-37.7
2nd	53.8	-6.3	-26.2	-5.2	0	0	-14.5	-78	27
3rd	59.1	72.5	7.8	5.2	0	0	-20	42.5	8
4th	151.4	-230	-4	7.4	0	0	-1.7	5.3	-3.6
5th	43.5	163.1	0	3.8	0	0	77.8	-18.4	-4.3
6th	5.6	8.5	0.8	-1.2	0	0	10.6	8.1	-0.8
7th	1	-2.3	-0.2	-0.6	0	0	-26.7	-3.3	-1.5
8th	14.6	8.8	-0.3	1.2	0	0	-26.1	-29.4	-1.1

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
18/10													
MEAN	-772.8	-130.3	242.1	491.8	437.3	183.7							
RMS	170.7	104.9	58.3	99.6	119	256.8							
1/2 P-P	306.9	183.6	134	227.2	260.7	478.6							
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-133.4	40.3	-100.7	10.3	-64.1	-37	-79.2	-73.1	-85.3	-89.7	-222.5	-172.	
2nd	19.3	35.5	7.3	22.3	-16.8	7.6	-37.5	4	-43.5	3	-109.3	-21.	
3rd	175.3	-63.4	97	-32.2	3.1	-7.3	-63.7	15	-88.7	24.5	-194	3	
4th	36.7	9.3	20.9	4.7	3.7	-2.8	-11.9	-6.1	-18	-7.8	-24.1	-10.	
5th	5.4	-16.9	0.7	-6.1	-7.3	5.9	-14.4	18.2	-15	22.4	4.1	-4.	
6th	14.1	-1.8	6.4	0.4	-4.5	2.3	-14.6	3.4	-16.5	3.7	10	-2.	
7th	3.2	1.4	0.8	2	-2.5	2.9	-5.8	2.4	-7.2	2.1	7.5	-2.	
8th	7.9	-4.3	0.5	-1	-9.1	2.9	-16.8	5.1	-15.4	3.8	20.8	-0.	
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800	Flap Bending, in-lb Blade 1, r/R=0.900	Flap Bending, in-lb Blade 1, r/R=0.900	Chord Bending, in-lb Blade 1, r/R=0.144	Chord Bending, in-lb Blade 1, r/R=0.570	Torsion, in-lb Blade 1, r/R=0.400						
18/10													
MEAN	33	-162.6	-335.2	-589.2	-2676.3	-415.5							
RMS	363	408.6	358.1	1239.2	487	32.9							
1/2 P-P	656.3	766.6	666.8	2015.6	1019.9	61.5							
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-363.3	-165.3	-354.6	-132.1	-85.1	-16.5	-1526.3	829.1	-90.2	334.4	18.2	-28.	
2nd	-269.4	-19.3	-403.2	-1.6	-460.3	-9.2	119.7	39.9	119.3	-43.6	-23.3	-9..	
3rd	-145.7	66.5	-93.1	56	-49.3	42.4	72.7	32	-123.4	-106	-13.2	-13.0	
4th	31.1	16.7	92.2	32.4	159	25.1	-52	11.6	444	-267.2	-1.3	-0..	
5th	38.8	-36.4	38.9	-45.9	18.8	-24.3	20.3	54.5	-26	-114.7	0.5	-	
6th	26.2	-0.2	11.2	3.6	-30.5	6.2	-15.1	-6.5	24.2	10.4	0.5	-0..	
7th	3.5	4.4	-4.7	7.2	-6.7	1.4	7.9	-17.5	-1.5	20.6	-0.3	0..	
8th	-7.4	3.3	-24.6	9.3	-17.4	7.5	-54.1	51.9	-64.4	62.2	0.1	0..	

RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	-904.3	-3779.8	-851.1	-4061.1	-1127.6	-209.6		
RMS	162.2	1343.7	157.2	1420.2	1184.9	739		
1/2 P-P	306.3	2138.7	290.5	2293.8	1934.6	1419		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	11.7	51.9	-810.5	-1702.2	-52.7	13.1	1741	-975.8
2nd	-8.7	-35.5	-113.1	-43.5	5.8	51.7	106.5	33.6
3rd	-84.4	-197	28.8	-70.5	-189.1	75.1	-70.6	-21.3
4th	35.2	11	-73.9	51.7	33.1	16.5	-9.4	34
5th	14.6	-8.5	-59.1	44.5	2.2	9.8	-35.5	-44.9
6th	-12.4	4.2	7.3	9.2	11.4	-2	-0.5	1.7
7th	2.2	-2.9	8	-3.3	-2.4	-3.3	22	-6.4
8th	-3	-18.5	-55.3	-53.3	-7.4	-17.4	-63.9	-72.5
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Pitch Link, lb
	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1
MEAN	-1408.7	-406.6	0	-5436.6	-480.4	-480.4	-480.4	-95.2
RMS	610.1	38.7	0	1282.6	33.6	33.6	33.6	8.6
1/2 P-P	1278.9	68.5	0	2113.1	66.8	66.8	66.8	18.5
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	355	-480.4	-18.8	42.5	0	0	755.2	1632.1
2nd	104.1	-35.5	-21.9	-10.3	0	0	-128.3	-17
3rd	89.6	115	10.6	9.7	0	0	-31.3	72.2
4th	401.4	-406.7	-1.4	1.2	0	0	3.7	16.4
5th	58.4	99.5	0.1	3.8	0	0	66.5	-33.6
6th	1.6	-1.7	-0.2	-0.7	0	0	5.7	7.2
7th	-16	4.4	0.6	-0.5	0	0	17.7	-20.8
8th	25.5	29.6	0.5	1.9	0	0	-59.6	-74

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
18/11													
MEAN	-78.9	299.7	416.5	567.7	497.7	265.7							
RMS	165.1	106.7	67.4	107.6	126.6	283.1							
1/2 P-P	286	187.6	135.8	230.3	262.2	520.7							
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-138.7	-21.5	-107.2	-26	-68	-55.3	-87.5	-83.9	-94.6	-99.8	-267.8	-187.8	
2nd	-2	37	-6.5	23.6	-23.6	8.3	-40.3	5	-45.3	3.1	-117.9	-23.	
3rd	162.6	-63.5	89.5	-32.8	-0.5	-6.6	-64.3	18	-87.6	27.3	-188.4	4	
4th	43.7	7.2	25.2	3.7	4	-3.3	-15.6	-6.5	-22.9	-7.6	-29.7	-13.	
5th	0.3	-15.5	-1.2	-5.2	-4.7	7.5	-7.6	20.9	-7.2	24.2	4.6	-4.	
6th	13	-0.9	5.6	0.5	-5.8	1.8	-15.9	2.9	-18.3	2.4	9.4	-3.	
7th	3.8	1.9	1.5	2.7	-2.1	3.4	-6.5	2.9	-7.2	2.1	7.8	1.	
8th	0.4	-7.5	-2.9	-1.7	-6.3	7	-9.2	12.4	-6.5	10.1	12.6	.9.	
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Chord Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400			
18/11													
MEAN	109.7	-110	-386.9	-5204.1	-2664.4	-431.5							
RMS	423.1	482.8	407.7	1812.3	611.8	29.5							
1/2 P-P	730.1	873.3	728	2864.1	1277.6	56.7							
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-450.9	-172.3	-449.2	-131.7	-106.1	5.6	-2177	1319.8	-121.9	456.7	19.5	-20.5	
2nd	-314.1	-30.2	-472.9	-15.1	-533.2	-24.5	172.6	86.7	140.5	-52.2	-19.8	-10.8	
3rd	-126.8	67	-65.4	55.7	-32	32.7	91.9	24.3	-160.1	-110.5	-14.3	-12.2	
4th	34.1	15.3	101.5	27.3	170.1	25.3	-68.7	23.9	576.7	-283	0.9	-0.2	
5th	21.8	-39.7	14	-42.1	-2.2	-16.8	28.1	55.9	-36	-121.2	0.5	-2.	
6th	28.4	0.9	12.7	1.4	-29.9	4.1	-18.3	-4.1	31.5	7.7	1	-0.1	
7th	4.6	5.3	-3.2	5	-4.3	-4.5	11	-20.9	-3.5	22.8	-0.1	0.5	
8th	-6.3	5.4	-11.3	16.5	-0.6	14.4	-91.1	54.3	-57.1	95.3	0.1	1	

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
18/11						
MEAN	-192.4	-3113.9	-123.7	-3393.5	-528.7	25.3
RMS	156.8	1885.5	151.4	1952.6	1632.2	968.5
1/2 P-P	278.9	3006.3	275.9	3077	2608.3	1764.7
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	41.8	16.6	-1224.8	-2350.4	-27.1	34.6
2nd	2.6	-33.3	-163.8	-80.5	-25	39.9
3rd	-85.8	-186.3	25.9	-92.5	-179.4	76.7
4th	46.9	9.5	-74	47.7	44.5	17
5th	16.5	-12.7	-51.2	52.5	8.4	13.5
6th	-14.5	2.5	12.7	8.9	14.1	-0.9
7th	4.4	-1.8	10.2	-8.4	-1.7	-3.8
8th	-9.6	-19.9	-96.4	-44.7	-8.1	-16.1
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
18/11						
MEAN	-1332.5	-422.1	0	-4811.3	-502	-90.2
RMS	738	34.3	0	1886	31.3	9.7
1/2 P-P	1511.5	61.9	0	2978.4	63.3	20.3
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	471.9	-636.7	-20.6	34.9	0	1194.6
2nd	118.2	-38.9	-19.6	-8.3	0	-185.7
3rd	114	123.5	10.6	9.8	0	-19.8
4th	476.5	-393.5	-2.4	0	0	-0.6
5th	75.9	124	0.3	3.1	0	45.2
6th	5.1	3.6	0.2	-0.3	0	10
7th	-17.8	6.4	0	-0.4	0	15.9
8th	41.8	24.8	0.3	1.9	0	-97.9

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570						
18/12	1/2 P-P	MEAN	564.5	699.3	579.5	640.1	556.1	345.5	313.2	547.8	RMS	175.9	114.9	75.6	117.6	137.4	278.2	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE		
1st	-142.1	-64.2	-112.2	-50.9	-69.5	-68.3	-94.4	-91.3	-102.2	-108.3	-310.3	-205.5						
2nd	-32.4	18.9	-24.5	12.7	-30	5.9	-41.8	7.6	-44.1	7.4	-119.7	-19.1						
3rd	166.3	-68.1	90.6	-34.9	-2.3	-5.9	-69.3	19.9	-93.4	30.8	-197.8	47.4						
4th	46.9	7.2	26	3.2	3.3	-4	-19.1	-7.3	-27.1	-8.7	-33.8	-11.7						
5th	-0.3	-24.4	-2	-8.1	-6.3	12.6	-10.3	32.8	-9.9	37.9	7	-5.2						
6th	10.6	-7.6	4.5	-3	-4.5	2.2	-13.2	6.5	-14.4	7.6	8.2	-1.7						
7th	2	6.5	-0.1	4.5	-1.4	1.8	-3.7	-2.6	-5.1	-3.8	2	3						
8th	11.2	-9.5	0.7	-3	-14.6	5.3	-26.1	10.2	-23.4	9.8	31.5	-2.4						
RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.725		Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Chord Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400						
18/12	1/2 P-P	MEAN	181.5	-60.8	-434.8	-4467.1	-2634.9	-440.8										
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE		
1st	-529.5	-192.4	-533.4	-144.8	-129.1	6.1	-2866.2	1765.3	-154.3	587.2	19	-16.3						
2nd	-350.2	-30.8	-534.9	-23	-596.4	-37.9	224.3	147.8	155.4	-63.8	-16	-4.8						
3rd	-124.2	74.2	-56.4	63.7	-20.3	33.4	110.3	33.8	-199.7	-131	-13.7	-13.4						
4th	43.8	15.1	125.6	25	188.3	30.2	-80.7	18.7	672.4	-314.3	4.6	-0.1						
5th	25.6	-64.8	5.1	-70.5	-15.1	-34.4	20.1	72.5	-26.8	-159.1	0.8	-2.2						
6th	27.7	-7.6	20	-5.7	-25.9	-5	-1.7	-6.6	0.7	11	0	-1.4						
7th	3.4	7.6	-2.7	-1.3	3.8	-13.2	-27	-3.9	37.4	10.7	-0.4	0.4						
8th	-9.9	3.7	-35.9	18	-28.2	17.4	-35.8	-85.3	34.5	86	-0.3	1.4						

RUN/POINT		Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	18/12	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.174	Blade 3, r/R=0.325		
MEAN		461.6	-2431	567.4	-2707	82.4	-1567.1	1211.8	-1071.3	254.8			
RMS		187	2529.3	171.4	2470.9	2067.7	134.6	150.2	39.2	1216.2			
1/2 P-P		350.1	3860.9	301.4	3805.2	3214.6	48.4	48.4	94.6	2265.2			
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE		
1st	116.5	23.9	-1733.6	-3109.1	30.4	96.9	2915	-1895.4	2451.4	1211.8	-1071.3		
2nd	25.5	-33	-219.7	-128.9	-34.7	24.8	190.9	171.2	161.7	134.6	150.2		
3rd	-95.3	-197.4	29	-118.8	-190	76.9	-103	-27.9	-75.7	-4.7	39.2		
4th	57.2	9.6	-64.1	50.8	50.7	16.5	-7.1	25.9	73	-42.5	48.4		
5th	33.8	-16.7	-63	53.4	9.4	24.6	-32.7	-87.1	-12.6	-51.6	48.4		
6th	-15.9	7.7	16.7	-5.1	15.1	-4.3	-3.8	10.8	-0.5	6.5	-4.1		
7th	7.8	0	-25.9	17.4	-3.1	-8.5	-10.5	38.7	-11.9	26.9	-17.4		
8th	3.6	-17.6	-37.6	-83.6	-1.9	-11.5	-45.8	-86.3	-36.1	-81.4	-13.9		
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb			
	18/12	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 4, r/R=0.400	Blade 1			
MEAN		-1256.7	-431.5	0	-4123	-516.9	-83						
RMS		911.6	30.8	0	2460.4	30.9	11.6						
1/2 P-P		1829.6	58	0	3804.5	58.3	23.6						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE		
1st	552.9	-829	-20.6	29.7	0	0	1621.2	3060.2	-15.1	-33.3	-10.4		
2nd	127.1	-32	-16.4	-6.7	0	0	-215.2	-127	15.5	9.6	-3.9		
3rd	152	130.8	12	9.4	0	0	-28.7	115.7	12.3	-5.3	-0.2		
4th	559.8	-493.5	2.5	1.1	0	0	9.2	-5.7	4.2	1.8	-0.5		
5th	79.7	184.1	0.9	2.2	0	0	77.2	-33	-2.8	0.6	-0.3		
6th	8	-9.7	0.9	-0.7	0	0	19.1	10.9	-0.2	0.9	-0.1		
7th	-8.4	-17.3	0.3	-0.4	0	0	-17.7	-3.1	-0.6	-0.2	0.1		
8th	17	31.6	-0.2	1.7	0	0	-41.3	-91.8	-0.5	2.4	-0.9		

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
		Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570
MEAN	2022.2	1605.8	948.5	806.9	690.8	519.7	519.7				
RMS	262.8	172.2	88.5	129.2	150.9	360.8	360.8				
1/2 P-P	479.5	296.5	188.7	271.2	294.2	636.3	636.3				
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-280	74.4	-203	36.8	-105.8	-37.6	-114.5	-86.9	-118.5	-111.2	-369.9
2nd	-57.5	52.3	-40.4	32.2	-37.8	13.2	-44.2	6.5	-45	4.7	-125.3
3rd	194.5	-59.5	106.7	-30	0.4	-7	-73.1	15.1	-99.8	24.3	-218
4th	60.3	8.4	34.2	4.4	7.5	-3.6	-19.7	-8.2	-29.4	-9.3	-47.3
5th	-15.1	-40.8	-7.2	-14.1	-2	20.4	4.7	51.3	9.3	60.4	8.7
6th	19.7	-6.2	8.3	-2	-7.9	0.7	-22.1	3	-24.6	4.6	-7.
7th	0.6	7.2	-0.6	5	-1	1.5	-2.1	-4	-2.6	-4.7	0.
8th	6.7	-2.4	-0.7	-1.3	-9.9	-0.6	-15.6	-1.1	-14.1	-1.6	0.7
										15	5.
RUN/POINT	Flap Bending, in-lb	Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
		Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.400	Blade 1, r/R=0.400
MEAN	326.2	33.9	-534.3	-2665.9	-2544.7						
RMS	586.6	684.7	533.7	3351.2	974.7						
1/2 P-P	1019.8	1265.3	956.9	5109.3	1834.5						
										448.2	30
											70.1
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-654.7	-218.8	-686.5	-171.7	-159.7	-0.8	-400.4	2494.3	-204.5	828.3	21.4
2nd	-414	-70.9	-627.2	-51	-695.4	-56.8	380.2	109.1	218	-99.5	-3.1
3rd	-127.2	53	-50.8	26.1	-20.8	-0.7	121.9	93.8	-254.5	-156.1	-17.1
4th	44.6	17.9	140.8	24.2	209.6	25.6	-103	44.6	865.7	-444.8	21.6
5th	-17.9	-105	-49.1	-104.7	-54.8	-50.5	50.6	54.3	-65.8	-188.1	1.4
6th	41.7	-3.1	22.1	-8.1	-32.9	-7.1	-13.2	3.6	16.5	7.7	0.4
7th	1.1	9.1	3.1	0	9.3	-18.8	-15.3	18.8	29	-6.6	-1.4
8th	-9	-1.4	-24.4	1.8	-8.7	3.6	-66.9	-64.6	58.7	-0.1	0.4

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
18/13	1919.4	-734.5	2053	-1434.9	1232.1	687.2
MEAN	207.5	3489.9	208.8	3482.1	2926.2	1683.4
RMS	403.3	5304.7	412.2	5342.9	4488.1	3008.2
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-35.1	-104.1	-2403.1	-4287.8	139.3	-23.4
2nd	44.6	-61.7	-332.1	-113.5	-65.4	59.2
3rd	-97.1	-218.4	76.1	-146.4	-217	67.2
4th	77	12.1	-84.8	51.6	61.8	13.7
5th	44.6	-36.4	-52.5	82	24.8	45.4
6th	-27	8.8	26.2	-22.5	20.9	-2.1
7th	7.1	5.4	-16.3	21.6	1.6	-8.7
8th	-2.4	-15.5	-64	-52.5	-7.3	-1.9
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
18/13	-1125	-438.1	0	-2530.4	-533.3	-59.2
MEAN	1215	30.2	0	3404.3	33.5	21.9
RMS	2409.2	69.3	0	5214.3	66.3	38.9
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	772.5	-1141.5	-22.4	24.2	0	2267.9
2nd	207.2	-67.2	-1.7	3	0	-326.9
3rd	190.8	157.7	18	10.3	0	-68.5
4th	759.8	-539.5	11.4	10.7	0	-12.7
5th	132.1	210.8	-1.2	2	0	66.4
6th	25.6	-10.1	0	-2.6	0	26
7th	-7.3	-20.5	1.2	-0.5	0	-6.9
8th	30.4	18.3	0.3	1.1	0	-70.5

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570			
18/14	1/2 P-P	MEAN	3223.5	2353	1237	925.8	775.9	605.1	RMS	520.8	321.2	117.4	121.3	137.2	319.7
			1126.1	701.2	328.7	340.5	365.5	639.8							
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	SINE	COSINE	SINE	COSINE	SINE		
1st	-89.9	581.6	-92.1	354.7	-46.8	93.7	-87.8	-37.1	-94.3	-75.9	-352.9	-178.2			
2nd	-109.9	287.9	-76.9	173.6	-51.7	54.7	-48.6	0.4	-44.7	-21.1	-101.3	-130.8			
3rd	46.4	-22	24.5	-9.6	-14.2	-2.6	-33.2	11.6	-37.9	14.2	-32.1	26.9			
4th	61.6	13.1	34.4	9.5	0	3.7	-28.3	-2.2	-39.5	-5.1	-35	-32.6			
5th	-67.9	38.7	-28.1	19	21.6	0.8	69	-16.8	82.6	-27.1	5.2	-19.2			
6th	27.5	16.6	9	7.8	-11.5	-4.3	-32.6	-17.7	-36.6	-21.3	15.7	10.8			
7th	6.1	-0.3	3.1	1	-0.1	-1	-4.3	-2.8	-7.6	-2.3	2.4	4.2			
8th	15.5	-7.5	-2	-4.8	-27.5	-1.3	-44.6	1.5	-40.3	3.7	50.9	9.3			
RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.725		Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Chord Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400			
18/14	1/2 P-P	MEAN	353.4	20.3	-571.8	-780	-2226.5	-536.8							
		RMS	587.6	712.4	596.3	3978.2	959.4	192.2							
		1197.9	1400.2	1170.8	6754.7	2206.9	573.8								
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE		
1st	-638	-137.8	-673.4	-102.9	-181.6	-50	-4643.2	2921.6	-351.5	893.9	165.8	46.7			
2nd	-408.6	-179.8	-636	-167.8	-723.4	-103.1	496.5	-284.4	256.7	-92.3	34.8	-100.9			
3rd	81.3	26.8	128.4	18.2	76.8	20.8	100.4	-8.7	-164.3	-127.2	-117.5	-46.6			
4th	83.4	1.4	196.8	25.1	276.3	60.9	-49.1	40	614.4	-105.7	-27.4	48.9			
5th	-137.8	43.3	-159.6	69	-94	24.5	90.2	-20.5	-224.2	12.9	-28.5	14.4			
6th	57.8	34.5	19.9	14.8	-66.7	-17.2	-40.5	-20.6	40	13.7	19.3	14.5			
7th	14.1	4	11.2	4.1	1	12.9	-19.6	4.5	18.1	-1.9	1.2	-9.2			
8th	-18.8	-7.5	-57.2	8.9	-35.4	33.3	-34.4	-128.3	50.1	133.8	-4.9	0.1			

RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
18/14	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	3649	1389.2	3612.3	376.3	2866.3	-4426.3	2277	-2808.2
RMS	451.4	6218	300.9	5349.4	4502.2	543.5	382.6	-82.1
1/2 P-P	1070.5	9600.7	693.1	8075.6	6724.7	-101	-72.3	59
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	463.5	165.3	-5553.9	-6761.1	23.1	176.4	5330.4	-5313.4
2nd	260.7	-187	-685	-58.8	-251.9	231.5	645.4	-101
3rd	-132.2	-104.1	65.9	-137.9	-76.4	62.4	-103.6	-8.6
4th	94.3	34.4	-101.2	8.9	66.1	20.4	-46.9	28.9
5th	62.8	-36.8	-35.7	78.2	66.8	7.2	-79.8	-35.7
6th	-25.2	-1.1	37.5	12.6	22.5	1.3	-11.9	-10.9
7th	4.1	-4.1	17.3	-20.8	-8	-12.7	-3.7	-35
8th	-2.9	-21.4	-42.2	-123.5	10	-11	-54.8	-121.6
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Pitch Link, lb
18/14	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1
MEAN	-739.1	-461.6	0	0	-791.7	-547.8	-51.6	
RMS	1791.3	117	0	6029.3	103.2	43		
1/2 P-P	3339.8	375.5	0	9156.4	274.1		114.4	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	1082.4	-2028.3	-88.6	1.7	0	0	5093.3	-1
2nd	286	-98.6	66.9	-32.6	0	0	-667.6	-30.8
3rd	136.6	68.4	76.7	48.9	0	0	-66.1	111.4
4th	853.9	-35	-29.3	33.5	0	0	-16.6	32.5
5th	283.1	93	2	-18.6	0	0	-7.7	-52.2
6th	19.9	19.9	4.9	-2.2	0	0	48.1	-0.1
7th	-1.7	29.3	-3.8	-1.9	0	0	-2.5	-12.2
8th	14.9	44.7	2.2	-1.8	0	0	-18.8	-135

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb							
28/20	Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.570	
MEAN	-3709.7	-1977.4	-552.7	24.4	84.2	-317.3					
RMS	497.2	297.5	115.3	117.7	137.5	307.5					
1/2 P-P	908.3	555.9	247.6	276.2	326	661					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-81.3	-230	-47.3	-160.8	-17.8	-105.2	8.6	-104.1	25.3	-107.3	
2nd	607.5	-188.5	359.6	-103.6	95.8	-35.3	-62.5	11.4	-108	29.1	
3rd	-148.9	53.6	-85	27.1	-14.6	4.7	33.3	-6.3	51.6	-7.3	
4th	8.1	-17.4	3	-9.2	-5.3	1.7	-13.1	10	-16.9	13.7	
5th	41.2	19.5	17.9	8.5	-8.3	-7.6	-31.1	-21.7	-39.8	-22.6	
6th	-2.6	12	0	4.9	4.5	-4.4	8	-11.2	6.6	-12.7	
7th	-6.6	6.8	0.4	2	11.6	-4.6	18.1	-9.3	16.7	-8.4	
8th	32.6	-27.7	5	-2.3	-35.1	28.1	-63.6	50	-58.3	51.1	
RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
28/20	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.400	
MEAN	-418.5	-452.3	-150.7	-8878.3	-2758.3	-308.5					
RMS	338.8	295.3	160.8	460.9	195.9	77.1					
1/2 P-P	604.4	645.9	391.1	995.9	475.7	142.2					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	323.5	-154.9	295.1	-128.5	84.5	-42.5	322.9	-318	92.9	-20.5	
2nd	-266.5	121	-166.2	118.6	35.7	48.5	-410.6	130.2	37.6	-34.4	
3rd	57.8	22.3	8.7	37	-33.7	62.5	56.3	-33.4	-6.8	20.3	
4th	2.8	-20.9	5.2	-29.5	-18.6	-30	21.1	-11	-119.7	69.2	
5th	73.3	41.7	88	54.1	68.5	45.6	-63.2	-21	129	50.3	
6th	0.8	7.9	-1.2	3.1	-7.4	3.4	7.8	-3.4	-10.9	9.3	
7th	4.7	0.8	20.6	-16	14.8	-22.3	0.1	-38.9	4.7	35.5	
8th	-20.1	15.7	-85.1	68.9	-89	69	9.2	-34.4	0.4	30.7	

RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Flap Bending, in-lb	Chord Bending, in-lb	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Chord Bending, in-lb	Blade 3, r/R=0.174	Chord Bending, in-lb	Blade 3, r/R=0.325
28/20	Blade 2, r/R=0.144	Blade 3, r/R=0.144	-3792.2	-6455.1	-3763.6	-7028.7	-3794.7	-1408.4				
MEAN			490.1	451.1	514.5	465.8	379.5	183.4				
RMS			868.9	1005	933.1	1038.5	831.2	408.9				
1/2 P-P												
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	289.9	111.6	393.1	269.1	-194.8	294.4	-123.8	429.4	-113.1	381.7	14	175.1
2nd	-563	188.3	358.1	-145.3	588.8	-167.4	-415.2	158.6	-309.9	111.7	-122.8	51.1
3rd	65	140.9	-35.1	-31.6	142.5	-50.1	-51.4	42.1	-35.9	25.9	-5	-6.6
4th	6.7	-16.4	17.9	17.6	8.5	-9.9	-20.8	24.8	-19.7	15.2	-26.7	-22.7
5th	-7	54.2	12.4	-64	-51.1	-0.5	68.2	9.5	32.9	8.3	-100.8	-10.6
6th	-3	-12.9	6.1	11.6	0.9	18.5	-6.9	-7.1	-5.4	-3.3	-5.1	20.6
7th	10	8.5	1.5	-29.4	8.2	-9.2	17	-31.6	13.6	-24.1	-6.8	-6.7
8th	15	-53.4	6.5	-30.9	27.8	-49.6	5.8	-36.6	2.9	-30	-0.2	-8.6
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Flap Bending, in-lb	Chord Bending, in-lb	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Torsion, in-lb	Blade 4, r/R=0.400	Pitch Link, lb	
28/20	Blade 3, r/R=0.450	Blade 3, r/R=0.400	-1816.5	-303.2	-3592.9	-8102.1	-350.9	-42.2				
MEAN			172	88.7	493.2	468.1	75	5.9				
RMS			412.6	154.3	885.6	1028.8	134.9	16.3				
1/2 P-P												
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	82.3	85.1	-47.7	100.8	-231.2	-36.5	-374.1	-212.3	-85	-46.5	-1.7	-0.3
2nd	-15.7	8.6	-47.6	-10.8	-606.4	181.4	451.6	-113.1	36.6	11.9	0.7	-3.2
3rd	21	-11.9	-18.9	-0.8	-68.4	-140.7	39.4	48.1	-1.9	6	-0.3	3.7
4th	-24.6	-33.2	-8.6	19.7	5.3	-8.6	-12.8	-6.3	-6.8	15.1	-2.9	3.6
5th	-172.8	-4.9	2	-2.2	1.3	-50.4	-28.8	81	-0.6	0.3	-1.6	0.7
6th	9.2	24.2	1.5	-0.6	-1.2	-14.9	3.3	29.6	-2	0.4	0.4	-0.6
7th	-11.4	15.1	-3.4	2.2	-10.1	-4.2	12.9	-36.8	1.2	2.1	0.4	0.3
8th	-3.7	26.4	-0.2	4.3	13.8	-53.7	7.1	-40.1	-0.9	5.1	-0.4	0.3

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
28/21	1/2 P-P	RMS	409.4	247	425.1	207.3	284.4	142.2	176.7	139.3	319	274.9	557.1
MEAN		-2517.2		-1237.8		-250.1		142.2		176.7		-217.5	
RMS		409.4		247		104.2		120		139.3		274.9	
1st		-158.6		-195.1		-104		-141.8		-53		-106.2	
2nd		507.7		-89		295.7		-47.5		69.1		-19.5	
3rd		17.8		-13.5		7.6		-9		-8.4		-3.1	
4th		29.8		-1.4		15.2		-0.8		-4		-2.7	
5th		29.9		52.2		12.1		21.8		-5		-18.2	
6th		0.1		9.2		1.4		3.7		4.9		-3.3	
7th		-3.6		-1.8		0.8		1.6		7.3		5.3	
8th		3.7		25.3		2.3		4.5		1.1		-24.5	
MEAN		-387.1		-491		-491		-313.7		-8642.8		-2745.1	
RMS		316.3		290.2		290.2		174		373.5		280.6	
1/2 P-P		554.6		622.9		622.9		390		787.9		769.9	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	151.3	-175.8	140.8	-136.5	54.2	-35	-288	-183.6	-166.2	35.2	39	-79.4	
2nd	328.8	76.7	-267.6	78.2	-82.5	34.8	-348.5	88.2	117.1	-69.5	-43	-14.2	
3rd	-91.8	' 83.6	-116.3	99.6	-117.5	94.2	52.7	-8.3	-43.6	-8	8.3	14.2	
4th	10.7	4.8	20	9	8.6	15.7	5.1	11.7	128.7	-194.2	-18.4	4.3	
5th	65.4	98.6	77.2	115.9	65.2	77.4	-49.2	-69.1	91.8	135.1	9.7	0.6	
6th	15.2	-4.3	24.1	-15.3	18.2	-17	2.8	-6.7	-3.6	15.6	6.4	0.7	
7th	8.6	-2.8	30.9	6.8	39.7	5.4	27.3	-21.3	-19.6	21.3	2.4	2.4	
8th	3.4	-17.7	0.4	-63.7	0.1	-65.6	34.4	21.7	-30.2	-13.9	-0.3	0.1	

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
28/21						
MEAN	-2580.4	-6207.5	-2541.1	-6821.7	-3550.1	-1359.2
RMS	392.7	418.6	406.1	523.2	427.4	288.4
1/2 P-P	671.5	874.3	728.6	1077.1	866.3	632.1
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	256.1	34.9	290.7	-344.1	-103.1	258.1
2nd	-476.6	84.3	321.5	-111.7	491	-65.3
3rd	-8	-16.7	-14	-44.2	-20.4	19
4th	24.5	-5.5	-24.3	31.2	24.8	-3.5
5th	-47.3	43.3	53.7	-49.3	-55.1	-35.5
6th	0.8	-9.3	-1.4	16.7	-0.5	7.4
7th	-3.3	6.4	22.3	-8.1	3.9	3.2
8th	13	33.3	28.7	27.3	20.1	15
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
28/21						
MEAN	-1822.5	-345.8	-2407.4	-7904	-405.1	-44
RMS	320.3	83.7	396.3	467.1	71.8	7
1/2 P-P	797.5	146.9	650.8	954.3	127.3	17.9
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	235.8	13.8	-43.4	95.3	-199.4	29.1
2nd	61	-38.2	-44	-16.5	-508.7	83.6
3rd	36.8	22.5	-11.9	-13.8	8.3	15.3
4th	213.1	-206.6	-17.4	7.3	27.5	1.3
5th	-172.3	-102	-7.1	2.7	41.2	-51.3
6th	-14	22.7	4.6	-1.1	-0.2	-9.2
7th	-20.2	-1.3	-2.9	-2.3	4.6	-3.8
8th	-10.2	-12.5	-1.4	0.7	33.5	22.8

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
28/22	MEAN	-1314.8		-491.7		57.6		271.8		283.3		-101	
	RMS	373.6		225.5		102.3		145.1		174.3		320	
	1/2 P-P	639.7		416.2		216.6		351.4		431		699.4	
	HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
	1st	-292.1	-32.3	-194.8	-44	-94.8	-71	-67.9	-109.2	-61.2	-121.2	-25.7	-24.5
	2nd	366.4	-44.8	210.7	-23.3	38.1	-11.8	-81.5	-0.5	-117.2	8.1	-301.2	11.8
	3rd	196.2	-74.1	107	-39.7	-1.1	-11.9	-85.5	18.1	-114.7	35.6	-233.8	85.2
	4th	75.4	7.8	40.3	3.4	-1.8	-8.5	-39.7	-12.3	-52.3	-4.6	-45.5	1.4
	5th	20.6	72.1	6.8	29.3	-5.3	-24.3	-16.5	-72.1	-21.9	-84.4	3	2.3
	6th	6.6	-5.2	3.6	-1.3	0.2	2.3	-3.7	6.5	-6.8	9.5	0.2	-3.9
	7th	10.7	-6.5	1.8	-1.2	-11.3	4.2	-22.2	9.1	-21.9	14.1	28.9	-10
	8th	-1.6	6.7	4	3.9	11.6	-0.4	13.2	-4.5	10.4	-4.1	-17.3	-9.5
	RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725		Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Chord Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400	
28/22	MEAN	-342.4	-533.4	-487.9	-487.9	-8095.6	-8095.6	-2722	-2722	-397.8	-397.8		
	RMS	393.8	386.7	291.9	869.5	793.7	1696.2	1696.2	1696.2	69.5	69.5		
	1/2 P-P	825.6	886.1	855.8	1388.6					128.1			
	HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
	1st	-14.5	-224.1	7.3	-177.5	28.6	-51.5	-1186.3	72	-250.3	126.5	41.7	-70.7
	2nd	-366.3	54.6	-350.2	56.7	-189.2	24.5	-221.2	86.8	190.8	-98.4	-40.8	-10.7
	3rd	-246.8	152.7	-243.1	173	-221.9	147.7	82.7	20.6	-135.7	-88.7	-16.6	9.1
	4th	44	16.7	74.9	22.4	60.5	37.8	-73.4	47.2	823.7	-612	-16.3	-13.4
	5th	68.4	138.9	98.3	156.4	92.9	99.7	-10.8	-77.6	15.7	160.9	12.7	6
	6th	48.6	-22	69.6	-32.1	70.7	-29	24.1	-4.1	-42.1	16.4	6.3	2.6
	7th	18.3	-13.3	-14.3	3.7	-29.4	14.8	4.4	10.7	1.7	-15	-0.5	-1.1
	8th	5.6	-3.3	4.6	6.6	-25.7	21.2	-34	35.7	35.1	-34.6	-0.9	-0.8

RUN/POINT		Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
		Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.174	Blade 3, r/R=0.325	Blade 3, r/R=0.325	
MEAN	-1362.4		-5656.8		-1304.7		-6297.9		-3054.5		-1189.1		
RMS	305.1		936.4		304.9		1085.7		911.9		687.5		
1/2 P-P	613.7		1538.9		635.5		1722.9		1408		1433.2		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	96.9	-74.1	56.2	-1287.1	35	92.1	1506.7	61.3	1264.2	78.6	716.4	-31	
2nd	-337.8	42.2	203.9	-91.5	339	-38.6	-186.7	118	-111.9	82.6	99.5	-9.3	
3rd	-82.3	-192.2	15.5	-91.3	-202.3	82.3	-77.4	-3.6	-65.4	8.7	11.1	64.7	
4th	71.4	-4.3	-90.7	34.7	77.2	-6	25.5	-0.1	114.2	-70.6	490.6	-398.6	
5th	-64.3	32.2	66.7	-3.2	-40.9	-52.8	39.2	56.7	19.8	29.4	-44.5	-82.2	
6th	-9.2	9	3.4	-7.4	8.9	-7.3	5.8	2.7	-2.2	1.1	-30.1	5.9	
7th	-11.4	-10.7	-9.9	16.2	-13.7	8	-10.3	17.5	-9.5	9	-5.3	-2.8	
8th	-0.3	13.7	-24.9	40.9	-6.6	12.1	-26	47.2	-24.2	39.3	-0.1	33.1	
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb			
		Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 4, r/R=0.400	Blade 1	Blade 1		
MEAN	-1795.9		-389.4		-1213.2		-7406.7		-459.2		-45.4		
RMS	721.4		79.5		331.7		993.7		71.1		8.7		
1/2 P-P	1581.9		144		629.3		1631.2		134.5		20.5		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	452.1	-93.7	-46.5	87.7	-37.8	122.2	-108.2	1361.4	-70.8	-49.6	-2.1	7.3	
2nd	186.2	-73.9	-38.5	-11.1	-373.2	47.6	250.2	-97.2	35.1	11.9	-2.9	-1.3	
3rd	92.1	99.8	13.6	-11.6	84.3	201.5	-20.2	81	-6.7	-18.5	-2.8	5.5	
4th	621.2	-587.5	-23.4	-6.5	81.4	6.8	-29.9	47.6	-21.8	-11	-1.7	-3.9	
5th	-94.6	-122.4	-11.3	-0.8	63.8	-43.4	-83.2	6.5	1.7	-12	2.7	2.7	
6th	-20.3	2.2	5.9	2.8	-4.6	0.6	0	6.2	-5.1	-3.3	0.2	0.4	
7th	8.7	-10.8	1.6	0	10.5	17.1	3	8.8	1.8	-1.2	-0.2	-0.5	
8th	27	-19.2	-2.2	-2.4	-2.8	22.9	-37.3	39.1	-1	-3.8	0.5	-1.2	

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570		Flap Bending, in-lb Blade 1, r/R=0.570	
28/23															
MEAN	-658.5		-86.5		219.5		336.4		333.1		-32.4				
RMS	376.8		228.6		118.8		179.5		210.6		371.4				
1/2 P-P	646		430.2		229.9		421.6		502		831				
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-276.8	-112.7	-190.4	-91.7	-94.8	-94.7	-79.1	-123.1	-76.3	-133.1	-77.7	-241.	-241.	-241.	-241.
2nd	310.6	-20.7	176.4	-11.7	23.7	-11.1	-86.4	-6.3	-120.8	-0.6	-305	-11.	-11.	-11.	-11.
3rd	247.2	-119.7	135	-64.4	-4.1	-15.8	-109.7	28.7	-146.2	53.7	-305.5	119.	119.	119.	119.
4th	97.7	7.6	52.7	2.5	-0.4	-13.1	-46.3	-19.3	-62.7	-11.5	-61.6	2.	2.	2.	2.
5th	-3.4	98.7	-2.5	40	6.5	-31.9	11.9	-96.8	10	-115.2	-0.2	-2.	-2.	-2.	-2.
6th	13.4	-9.7	5.8	-3.1	-3.2	3	-12.7	8.9	-18.4	14	5.4	-5.	-5.	-5.	-5.
7th	25.9	-4.7	5.5	-2.1	-23.4	-3.4	-44.7	-1.6	-44.8	4.8	45.9	7.	7.	7.	7.
8th	-13.3	26	1.9	9.6	26.4	-14.6	39.1	-34.2	33.5	-33.8	-59.2	18.	18.	18.	18.
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725		Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Flap Bending, in-lb Blade 1, r/R=0.900		Chord Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400		
28/23															
MEAN	-328.4		-559.3		-577.2		-757.8		-2677.8		-418.7				
RMS	458		461.2		360.3		1560.6		1152.3		67.3				
1/2 P-P	1009.9		1077.7		980.3		2447		2278.1		134				
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-88	-243.6	-52.6	-189.4	14.4	-51.5	-2109.1	549.1	-365.9	238.8	43.8	-63..	-63..	-63..	-63..
2nd	-396.5	28.2	-401.9	32.6	-246.6	13.9	-141.9	126.2	266.3	-104.4	-39	-6.	-6.	-6.	-6.
3rd	-311.1	192.2	-303.2	207.9	-274.7	168.3	126.9	34.4	-210.1	-142.2	-24.5	9.7	9.7	9.7	9.7
4th	50.4	27	86.2	32.6	64.6	45.4	-92.1	75.7	1188.9	-896.8	-12.1	-17.2	-17.2	-17.2	-17.2
5th	20.4	195.1	59.2	226.5	81.5	150.5	34.5	-110.3	-97.3	214.7	9.6	9.5	9.5	9.5	9.5
6th	71.2	-31.4	99.6	-46.2	107.5	-35.1	5	2.6	-31	1.8	5.6	-0.5	-0.5	-0.5	-0.5
7th	28	-18.8	-35.6	-17.6	-66.2	-7.2	40	-9.9	-31.6	5.3	-0.9	-3.9	-3.9	-3.9	-3.9
8th	15.2	-9.4	36.6	-39.6	-12.7	-31.3	-49.1	133	46.6	46.6	0.3	-127.4	-127.4	-127.4	-127.4

RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	-688.7	-5268.6	-622.9	-5780.7	-2602.5	-1010.7		
RMS	322.7	1570.3	323.9	1747.6	1463.5	1066.4		
1/2 P-P	662.4	2415.7	695.2	2623.4	2203.4	2118.3		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	175.7	-45.5	-401.5	-215.3	26.9	170.9	2415.6	-414.3
2nd	-287.2	12.7	151.5	-138.4	284	-11.1	-112.5	145.9
3rd	-124.6	-239.9	15.2	-135.8	-251	121.6	-121	-97.3
4th	92	0.8	-142.8	66.5	99.6	-1.4	28.2	-2.7
5th	-86	9.6	91.8	40	-16.8	-88.2	-1.6	91.9
6th	-14.2	12	10.7	-4.7	10.8	-11.8	0.3	8.6
7th	-9.7	-21.9	30.6	-16.5	-25.1	4.8	17.2	-19.6
8th	-13.3	38.1	-29.3	135.8	-20.9	20.2	-31.7	146.3
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Pitch Link, lb
	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1
MEAN	-1729.4	-409	-548.8	-7083.5	-7083.5	-485	-44.6	
RMS	1074.7	76.1	338.4	1665.8	1665.8	68.8	9.6	
1/2 P-P	2188.9	144.7	698.1	2533.1	2533.1	139.5	24	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	664.9	-263.1	-49.4	79.6	-112.8	86.6	334.9	2305.6
2nd	250.3	-80.4	-35.5	-9.9	-318.8	17.9	176	-131.1
3rd	142.9	160.7	20.4	-1.3	134.6	250.5	-27	124.8
4th	959.7	-834.7	-20.9	-9	102.1	7.1	-30.1	51.9
5th	17.6	-209	-10.8	-3.8	99.7	-27.7	-122.6	-33.5
6th	-36.5	-4.8	4.6	0.4	-11.1	6.4	-4.9	-6.6
7th	-1.8	9.5	1.1	2.7	10	28.5	23.1	-10.5
8th	34.4	-43.5	-0.9	-1.5	-12	48.8	-50.8	128.4

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
		Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570
MEAN	-33.8	302.3	379.4	403.7	387.6	20.8					
RMS	379.8	225.9	125.9	213.6	248.9	427.4					
1/2 P-P	710.7	438.9	278.9	519.4	585.8	895.8					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	SINE
1st	-263.9	-92.3	-187.6	-78.5	-93.8	-94.1	-86.2	-127.4	-85.3	-139.7	-123.2
2nd	241	-16.4	133.8	-11.6	6.4	-14.2	-91.2	-11.7	-123.7	-6.5	-313.7
3rd	316.3	-136.4	171.5	-71.3	-5.5	-16.3	-139.1	35.2	-184.2	65.1	-388.5
4th	118.1	0	64.2	-3.5	1.7	-17.3	-54.2	-22.2	-75.5	-13.2	-81.6
5th	-3.3	125.2	-2.9	47.5	10.5	-49.1	17.7	-133.4	11.8	-157.4	-7.4
6th	14.8	-12.4	4.5	-6.2	-7.2	0.2	-18.4	8	-25.5	16.2	11
7th	34.6	-11.7	3.9	-6.1	-41.4	-4.1	-77.2	1.6	-74.9	10.8	85.9
8th	6.3	17.3	3.8	6	4.7	-13.1	-3.1	-29.7	-9.2	-27	-8.9
											27.2
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb
28/24	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.144	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.570
MEAN	-311.4	-582.9	-657.8	-7192.8	-2653.3	-437.9					
RMS	544.5	565.7	458.9	2288.4	1657.8	67.4					
1/2 P-P	1239.9	1367.8	1225.5	3432.1	3133.3	155.4					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	SINE
1st	-154.1	-271.6	-106.4	-221.3	2.4	-71.4	-3051.3	1008.8	-473.8	370.7	49.9
2nd	-429.2	22.9	-459.6	25.3	-314.4	5.1	-54.6	175.8	336	-124.5	-37.8
3rd	-394	223.2	-381.7	248.8	-340.5	204	181.4	35.9	-297.8	-221.7	-32.8
4th	59.1	41.3	105.3	55.6	80.2	72.6	-125.3	105.7	1757.1	-1290.9	-6.9
5th	28	275	90.1	310.3	119.3	203.4	27	-115.2	-92.6	240.8	15.6
6th	92.9	-41.1	118.8	-67.4	132.4	-59.1	16.6	8.8	-65.9	-12.2	6.9
7th	30.8	-24.9	-77.3	-16	-128	-1	28.8	-21.6	-25	11.2	-1.8
8th	-2.9	-11.8	-34.6	-29.4	-100	-9.5	-27.2	-100	-9.5	-111.2	-1.1

RUN/POINT		Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
28/24		Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174
MEAN	-59		-4895.1	28.5	-5492.9	-2327.9	-917.3	
RMS	335.9		2266	338.8	2472	2073.5	1529.6	
1/2 P-P	741.7		3431.9	748.8	3586.4	3073.3	3023.9	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	158.9	-27.6	-821.8	-3068.8	30.2	144.5	3367.9	-867.6
2nd	-217.3	15.4	61.9	-203.2	210.2	-11.3	-23.7	209.5
3rd	-156.8	-313.7	13.6	-187.2	-330.1	145.3	-174.1	-7.8
4th	114.6	-9.3	-194.2	103.6	127	-5.3	48.2	14.5
5th	-106.1	9.4	91.4	50.8	-15.6	-114.1	5	94.1
6th	-20.8	12.4	19.5	-8.5	14.7	-8.3	5.3	7.4
7th	-15.8	-33.2	10.9	-46.1	-37	8.2	-28.5	-47.9
8th	3	32.2	2.6	113.8	-14	18.1	-8.9	122
RUN/POINT		Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Pitch Link, lb	
28/24		Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1	
MEAN	-1707.9		-426.8	78.8	-6790.6	-509.4	-43.4	
RMS	1560.4		75.2	352.2	2386.9	70.2	11.6	
1/2 P-P	3050.8		154.5	774.9	3467.8	148.8	27.2	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	899.7	-435.8	-56.9	69.7	-95.6	56.4	758.8	3268.7
2nd	327.8	-75.3	-33.1	-7.3	-247.9	14	96.7	-192.8
3rd	215.2	231.5	27.3	-13.5	160.3	327.9	-29.7	176.1
4th	1380.9	-1292.5	-20.2	-13.5	129	0.8	-39.9	75.9
5th	18.5	-229.8	-15.9	-5	129.2	-38	-118.3	-22.3
6th	-54.5	-17.8	4.5	-1.3	-12.2	9.6	-18.2	6.3
7th	25.8	18.7	2.9	5.7	17.5	42.2	-12.3	-14.2
8th	31.5	-28.3	-3.9	-0.9	-3.3	40.6	-31.9	113.2

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
28/25	MEAN	RMS	1/2 P-P	1273.1	1115.5	713.6	549.3	502.9	404.6	329.4	295.2	1125.6	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-296.3	-45	-218.9	-47.4	-105.3	-91	-109.9	-140.1	-111.3	-156.6	-211	-305.4	
2nd	80.7	57.9	37.4	29.5	-28.4	-4.1	-94.9	-18.3	-122	-19.6	-307	-61.9	
3rd	469.6	-198.5	255.3	-101	-6.9	-15.3	-199.8	56.6	-262	97.1	-559.5	164.6	
4th	187.7	13.5	105.4	2.5	10	-27.1	-78.7	-41.3	-115	-35	-119.4	-6.9	
5th	-67.5	121.9	-26.3	45.7	42	-46.2	97.8	-128.4	104.6	-149.2	-17.2	2	
6th	48.1	-29.9	17.2	-14	-27.8	2.1	-60.1	18.5	-68.9	30.7	38.6	6.2	
7th	64.9	-12.8	11	-8.9	-64.4	-16.1	-131.2	-16.1	-129.7	-2.7	138	40.1	
8th	-13.1	-25.6	-4.7	0.5	9.1	40.5	16.1	61.6	11.5	57.6	6.1	-76.1	
RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.725		Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Chord Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400	
28/25	MEAN	RMS	1/2 P-P	-272.8	-626.1	-829.4	-6267	-2581.1	-463.9	68.3	167.9		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-275.1	-325.9	-209.4	-278.5	-26.1	-97.6	-4979.3	2037.2	-671.8	657.3	58.8	-36.9	
2nd	-495.4	-35.7	-571.4	-31.3	-430.2	-24	158.4	238.5	509.9	-152.5	-18.4	0.8	
3rd	-575.4	262.8	-551.9	283.8	-467.5	216.5	345.5	75.4	-505.8	-433	-45.4	18.1	
4th	93	61.3	164.6	75.2	102.8	78.3	-159.7	128.9	2945.9	-1777.9	13.1	-7.7	
5th	-117.2	245.9	-45.1	270.7	55.5	176.5	90.5	-52.5	-321.3	86.4	21.7	5.2	
6th	153.7	-54.7	159.3	-84.1	183	-64	14.3	-9.6	-89.9	15.5	9.2	-10.2	
7th	36.7	-25.6	-149.1	-21.1	-235.5	-8.4	62.9	24.4	-42.8	-18.2	-0.5	-10.8	
8th	-6.4	25.8	-23.6	104.3	-127.4	127.4	-241.4	6.4	260.7	-15	-2.3	7.2	

RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	1266.2	-4026.8	1386.7	-4623.1	-1526.8	-1559.4	2312.3	-1062.7
RMS	418.5	3785.2	439.4	3923.3	3301.5	4345.5	2443.5	
1/2 P-P	848.1	5600	847.4	5891.8	5237.4		5033.8	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	101.1	-53.7	-1760.9	-5011.7	96.8	79.6	5162.9	-1941.4
2nd	-80.2	-49.4	-142.4	-264.5	42.5	60.3	166.8	308.4
3rd	-226.3	-462.9	40.6	-367.9	-493.8	212.8	-348.2	-13.1
4th	180.4	-2.4	-290	158.6	207.1	6.6	134.9	40.3
5th	-112.8	-53.3	46.9	137.7	57.5	-125.8	-62.1	13.7
6th	-64	37.8	33	-21.3	57.2	-22.7	-13.1	27.1
7th	-17.2	-66.7	17.1	-50.4	-69.1	9.3	-65.4	-18.1
8th	-15.7	-22.8	-222.5	10.9	-23	-29.3	-238.4	34
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Pitch Link, lb
	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1	Blade 1
MEAN	-1603.1	-450.1	1391.2	-5962.4	-544.8	-544.8	-342	
RMS	2517.4	73.2	426	3882	69.2	69.2	19.7	
1/2 P-P	5143.8	169.5	849.9	5719.4	160.5	160.5	46.4	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	1304.9	-852.8	-66.4	49.8	-24	66.5	1652.2	-32.5
2nd	492.6	-66	-11.4	-0.5	-110.5	-51.9	-65.4	-274.9
3rd	362	428.1	39.7	-27.2	226.7	457.9	-53.1	327.3
4th	2340.9	-2004.2	-3.8	-2.5	205.2	8.3	-12.4	89
5th	333.7	-115.4	-21	-0.9	160.6	24.6	-44.5	-104
6th	-65.7	-54.8	7.1	-7.6	-47	21.3	10.5	12.4
7th	45.5	0.4	2.5	9.5	19.9	75.1	-26.2	41.6
8th	135.1	17.4	-5.4	11.6	-35.8	3.3	-241.2	8.8

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
28/26													
MEAN	2589.9	1936		1062.2		724.8		648.7		299.7			
RMS	704.7	416.3		241.6		385.2		426.2		712.7			
1/2 P-P	1325.8	850		589.1		889.3		925.2		1445.7			
HARMONIC	COSINE	SINE	COSINE										
1st	-474	174.1	-334.3	91	-148.6	-48.7	-141.6	-144.7	-140.1	-171.6	-284.9	-361.	
2nd	161	85	-104.5	43.4	-67.4	5.8	-8.8	-17.3	-95.4	-25.4	-267.6	-66.	
3rd	702.5	-309.6	386.4	-161.6	-0.8	-29	-277.6	81.3	-366.1	140.6	-776.4	226.	
4th	248.5	21.8	142.3	-0.9	22.9	-47.7	-87.3	-74.3	-134	-69.2	-151.5	-	
5th	-105.2	140.5	-40	54	59.5	-51.6	141.4	-145.8	164.8	-174.5	-31.2	3.	
6th	71.3	-45.5	22.6	-21	-44.9	5.9	-95.8	30.1	-105.7	44.7	59.3	8.	
7th	74	-21.2	12.3	-16.5	-77.7	-21.5	-149.9	-16.3	-147	-1.6	174.1	49.	
8th	-59.9	-44.7	-23.3	3.2	28.2	74.6	68.6	116.4	72.5	101.9	-39.3	-148.	
HARMONIC	COSINE	SINE	COSINE										
1st	-360	-407.5	-295	-354.5	-54.1	-137.8	-676.5	323.3	-843.5	1038.3	59.3	-30.	
2nd	-514	-85.6	-634.4	-84.8	-521.3	-55.4	452.4	263.6	684.3	-184.3	31	30.	
3rd	-805.4	317.7	-791.8	328.1	-629.9	222.5	532.6	151.6	-902.9	-713	-79.7	4.	
4th	128.8	83.9	205.1	109.8	111.5	90.3	-267	218.4	4313.8	-2912.3	23.5	26.	
5th	-211.2	275.4	-127.6	310.5	30.9	208.6	134.8	-57.4	-466.9	42.4	36.6	-2.	
6th	185.7	-61.5	180	-79.5	230.2	-51.3	-40.6	30.1	-82.8	10.4	0.8	-12.	
7th	48.4	-33.2	-194.4	6.8	-308.7	23.7	78.4	28.7	-61	-6.9	2.3	-14.9	
8th	4.3	29.7	56.1	191	-71.9	224.1	-448.3	70.4	484.1	-125.5	1.1		

RUN/POINT		Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
28/26		Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	2602.1	-3010.6	2768.4	-3762.3	-747.8	-4464.1	-470.9	3458.4
RMS	636.4	5257.1	689.7	5273	4464.1	7438.4	7410	
1/2 P-P	1210.6	7993.9	1351.9	8187.4				
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-141.8	-288.6	-2814.6	-6803.4	366.3	-212.4	6680.4	-3165.6
2nd.	72.8	-57.3	-345.9	-290.4	-147.6	60.4	461.4	349.5
3rd	-350.4	-658.5	102.1	-564.6	-690.6	327.2	-523.4	-383.9
4th	242.7	-7.8	-403.8	282.9	276.2	9	227.5	93.3
5th	-188.8	-115.5	50.7	196.4	115.4	-214.2	-112.3	76.7
6th	-83.3	60	69.3	-69.7	77.8	-39.5	-52.7	72.6
7th	-29.5	-80.9	24.3	-77.6	-83	18.9	-76.9	-41.2
8th	-80.6	-55.7	-439.4	107.6	-66.8	-46	-462.7	95.7
RUN/POINT		Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Pitch Link, lb
28/26		Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1	
MEAN	-1594.3	-435.2	2696.5	-4987.6	-546.7	-15.1		
RMS	3671.7	98.5	654.1	5318.9	87.4	38.5		
1/2 P-P	7206.6	207.6	1285	8097	199.8	81.6		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	1612.8	-1354.6	-72.6	32.9	245.2	262	2611.6	-14.1
2nd	682.9	-91.2	26.7	25.4	50.8	-51.4	-281.9	-332.8
3rd	698.7	663.4	63.5	-60.2	349.8	653.6	-127.2	469.7
4th	3165.2	-3244.7	1.7	29.6	281.3	1.7	32.1	136.1
5th	546.6	-297.9	-36.6	6.6	242.1	61.4	-52.9	-186.6
6th	-94	-73.4	0.8	-7.4	-65.2	39	69	-19.9
7th	49.2	-8.4	0.8	14.7	33.9	84.2	-40.8	59.6
8th	240.8	-8	-2.9	15.6	-104.5	-3.3	-441	76.4

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
MEAN	-415		75.5		-661.7		417.8		416.8		52.3		
RMS	483.2		280		209.6		244		288.1		443.1		
1/2 P-P	909.5		489.6		486.4		564.7		621.7		805.6		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-438.3	124.9	-285.7	50.6	-81.4	-101.3	-89.9	-119.4	-90.1	-140.8	-177.3	-274.2	
2nd	70.7	31.4	39.2	19.9	-41.3	2.8	-49.1	3.6	-60.7	5.5	-176.7	4.5	
3rd	398.6	-200.8	221.4	-104.5	-130.4	43.7	-155.5	53	-210.1	88.9	-453.3	163.5	
4th	130	40.8	71.5	19.3	-46.2	-34	-54.3	-39.4	-76.7	-41.8	-76.4	-22.4	
5th	-52.8	-157.6	-20.3	-58.6	23.9	159.9	30.2	185.2	49.2	221.3	16.9	-8.4	
6th	50.6	-18.7	17.2	-8.1	-61.9	7	-72.3	10.2	-79.6	13.2	49.7	14.4	
7th	14.7	2.4	8.1	-2	-9	-14.9	-11.9	-17.9	-16.6	-15.1	0.6	23	
8th	19.3	-60.8	-4.2	-11.3	-60.3	93.7	-67	109.2	-52.4	107.4	106.3	-103.5	
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725		Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Chord Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400		
MEAN	-246.1		-511.6		-588.9		-6738.4		-2653		-436.1		
RMS	584.1		627.9		505.9		1350.1		1365.3		78.7		
1/2 P-P	1184		1292.8		1105.7		2462.3		2820.5		161		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-205.8	-286.9	-153	-223.7	14.9	-67	-1715.1	677.2	-198.3	325.7	48.1	-67.8	
2nd	-351.1	29.1	-433.9	28.1	-363.6	6.7	120.9	23.7	234.6	-118.9	-39.6	1.3	
3rd	-400.2	226.8	-361.8	225	-326.9	177.5	130.5	46.3	-362.8	-204.6	-53.4	-13.2	
4th	98.5	48.9	177.6	78	185.7	62.1	-150.2	59	1481.9	-787.9	2.9	11.4	
5th	-48.6	-431.6	-23.6	-506.5	70.2	-347.5	177.7	200.3	-342.9	-535.1	-7.4	-18.1	
6th	110	-19.1	55.1	-41.5	8.9	-18.4	-21.6	-9.4	-7.3	6.8	9.7	-6.4	
7th	19.9	6.4	-29.6	-11	-98.1	-26.6	-0.9	-18.9	-0.2	16.1	1.9	0	
8th	-42	34.8	-91.4	164.9	-121	155.7	-159.1	-262.4	175.7	250.9	-3.2	8.9	

RUN/POINT	Flap Bending, in-lb 22/18	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
MEAN	-458.1	-4354.3	-378.6	-5012.5	-1963.9	-831.2
RMS	411.7	1398.9	401.6	1559.7	1314.6	1128.3
1/2 P-P	785.6	2437.4	777.1	2715.3	2377.1	2304.1
HARMONIC	COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE
1st	-58.9	-211.4 -534.8	-1834.7 208	-71.8 2078.3	-550.2 1753.8	-442.6 933.9
2nd	-39.5	-40.7 -98.3	-31.3 39.4	145 49.3	140.9 37.2	204.7 204.7
3rd	-240.6	-413.1 38	-144.4 -410.2	223.5 -122.2	-30.9 -89.1	5.1 102.6
4th	121.3	38 -201.5	75.4 132.2	38.8 18	28.5 183.6	-81.8 920
5th	154.7	-88.8 -181	194.9 82	141 -233.3	-156.2 -112.3	-68.9 294.1
6th	-57.1	13.8 39.8	13.9 50.8	-8.3 -42	-7 -31.8	-7.2 16
7th	7.2	-16 26	-14 -15.2	-7 33.2	-42.1 21.8	-37.8 -25.1
8th	17	-78.8 -181.4	-239.7 16.4	-57.7 -190.2	-252.7 -157.6	-237.1 -66.3
RUN/POINT	Chord Bending, in-lb 22/18	Torsion, in-lb Blade 3, r/R=0.450	Flap Bending, in-lb Blade 3, r/R=0.400	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
MEAN	-1716	-422.5	0	-6212.4	-502.7	-74.6
RMS	1305	83.2	0	1466.5	77.3	11.5
1/2 P-P	2755.6	168.1	0	2580.6	152.2	28.5
HARMONIC	COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE
1st	492.9	-361.8 -51.4	83.9 0	0 467	1963.9 -68.1	-58.7 -9
2nd	229.7	-99.7 -31.6	2.3 0	0 -98.2	-21.2 31.8	3.9 -6.5
3rd	277.8	205.2 49.8	4.8 0	0 0	-59.2 129.6	12.6 -43.9
4th	1192.9	-905.5 -6	15.2 0	0 0	-32.9 52.6	0.2 12.4
5th	539	533.8 5.3	9.1 0	0 0	220.1 -187.2	-12.1 8.2
6th	35.6	20.9 5.2	-3.8 0	0 0	16.7 49.3	-5.7 4.5
7th	-21.4	16.6 -1.4	0.3 0	0 0	-44.6 -3.9	-1.2 0.5
8th	75.4	94.8 -4.4	9.8 0	0 0	-158.4 -248	-5.3 12.8

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
		Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.370	Blade 1, r/R=0.570	Blade 1, r/R=0.400	Blade 1, r/R=0.570	Blade 1, r/R=0.400
MEAN	-3434.7		-1776.1		-424.8		175		172.7		-221.6
RMS	420.9		257.4		109.6		96.2		118.3		269.6
1/2 P-P	680.8		417		203.5		201.7		263		544
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	15.2	-295.7	10.1	-201.5	6.2	-128.2	7.1	-112.8	15.8	-117.4	156.1
2nd	479.7	-172.4	284.6	-94.3	77.1	-28.2	-49.9	17	-92.5	35.7	-280.9
3rd	-57.9	-23.2	-31.5	-13.4	-6.8	-1.4	8.5	12	18	20.4	29.3
4th	29.1	-15.7	15.8	-7.6	-2.5	-0.3	-19.3	10	-24.7	15	-18.6
5th	-4.6	30.3	-0.9	13.4	5.6	-6.3	10.4	-24.2	11.2	-29.4	-2.5
6th	3.8	-8.5	4.1	-2.7	2.9	5.1	0	11.3	0.9	13.3	-0.6
7th	1.8	-8	2.5	-2.7	1.9	4.4	-0.7	8	-2.6	9.8	0.8
8th	0.7	5.6	1.8	1.8	2.4	-4.1	1.7	-7.7	0	-7.9	-1.8
RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
34/ 7	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.400	Blade 1, r/R=0.570	Blade 1, r/R=0.400	Blade 1, r/R=0.570	Blade 1, r/R=0.400	Blade 1, r/R=0.570
MEAN	-380.5		-450.7		-188.7		-8781.1		-2663.8		-334.4
RMS	313.4		275		125.9		277.1		238.8		74.6
1/2 P-P	510.4		476.4		289.8		588.2		662.3		116.3
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	246.2	-171.2	232.8	-140.6	69.6	-44	6.4	-8.3	-132.9	68.1	37.5
2nd	-273.1	141.2	-195.4	136.7	-7.8	59.4	-328.4	140.9	61.1	-39.8	-33
3rd	-25.3	87.9	-58.3	100.6	-73.5	101.9	38	-14.1	-34.5	25.7	8.8
4th	4.5	-17	9.2	-22.7	-5.6	-16.3	-9.7	30.2	89.3	-209.7	-5.7
5th	-23.2	39.1	-28.2	42.9	-9.8	23.3	-6.2	-48.4	7.7	88.1	2
6th	13	-20.8	19.6	-21.2	11.1	-11.4	3.6	13.4	-1.2	-21	3.9
7th	4.1	-1.5	9.1	8.5	10.1	10.5	-23.1	-12.6	25.6	13.4	2.1
8th	0.6	-0.9	-0.7	-6.3	1.1	-6.3	-7.3	7.7	5	-11.2	0.7

RUN/POINT		Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
34/7		Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174	
MEAN	-3566.3		-6479.8		-3550.4		-6797.3		-3556.3		-1117.2
RMS	450.9		262.9		478.4		337		262.7		193.3
1/2 P-P	783.2		556.7		839.5		733.1		593.6		394.6
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	371	222.7	91.8	-76.7	-311.3	362.1	286.3	92.5	228.6	106.2	202.9
2nd	-429.1	168.3	291.8	-135.1	445.4	-154.3	-302.1	145.7	-220.5	102.2	-67.7
3rd	-18.7	64.8	-20.8	-27	65.1	23.6	-37.9	24.3	-26.1	20.7	9.5
4th	24.6	-23.8	-15.6	6.9	31.9	-25.2	-12.7	-3.2	5.6	-18.5	70.4
5th	-21.2	-3.8	24.6	18.1	-6.1	-15.6	24.5	37.1	11.9	24.4	-24.9
6th	-2.7	9.1	16.7	5.3	2.4	-11.1	1.9	5.5	3.4	2.1	-5.5
7th	-7.1	-0.2	-22.3	-10.6	0.4	9.3	-21.6	-4.5	-17.3	-10.1	-6.6
8th	-5.5	-2.1	-9.1	12.3	-2.6	-6	-18.3	7.9	-12.9	6.4	-15.1
0.2											
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
34/7		Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
MEAN	-1616.9		-327.7		-3347.7		-8069.3		-379.4		-50.8
RMS	201.7		86.8		434.2		306.8		75.8		9
1/2 P-P	536		135.7		721		638.3		119.5		19.7
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	181.5	-44	-39.1	109.8	-307.8	-135.4	-101.5	120.7	-93.9	-42	4.1
2nd	18.1	-14.9	-31.7	0.3	-479	165	354.6	-116.8	26.2	1	-0.1
3rd	34.5	-6.6	-13.7	-8.3	16.1	-64.2	21.1	47.6	-5.5	4.9	1.4
4th	90.3	-145.1	-9.9	7.4	32.6	-17.8	-16.4	29.5	-8.3	4.5	-1.1
5th	-41	-58	-2.2	3.9	22.6	-11.7	-31.8	0.3	-3.5	-3.1	0.8
6th	2.7	-6.3	3.9	-1.5	-3.2	9.2	5.7	3.3	-3.4	2	0.8
7th	6.4	4.4	-1.3	-2.2	6.8	2.9	-21.9	-11.6	-1.4	0.7	0.4
8th	9.6	-4	0.3	0.8	9.3	3.4	-11.1	2.9	-0.4	0.6	-0.7

		Flap Bending, in-lb Blade 1, r/R=0.144				Flap Bending, in-lb Blade 1, r/R=0.167				Flap Bending, in-lb Blade 1, r/R=0.215				Flap Bending, in-lb Blade 1, r/R=0.280				Flap Bending, in-lb Blade 1, r/R=0.325			
RUN/POINT		RMS	263	157.5	98.2	311	274.4	RMS	276	147.1	163.1	356	393.6	RMS	535.5	RMS	7.4	10	-209.7		
MEAN		-2140.4		-978		-98															
RMS		263		157.5		98.2															
1/2 P-P		560.8		304		226.4															
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE		
1st	-115.4	-86.9	-76.8	-78	-36.3	-86.2	-32.1	-110.9	-29.6	-125.2	-10										
2nd	252.6	-88.1	149.3	-47.7	32	-13	-47.7	10.5	-76.5	22.2	-217.3	63									
3rd	150.8	-102.6	85.4	-54.9	3	-9.7	-57	29.8	-78.1	51.7	-177.4	95.8									
4th	61.1	-0.9	34.3	-0.9	2	-7	-30.4	-5.7	-42.1	-1.5	-33	7.1									
5th	-25.4	-49.1	-10.4	-19.3	2.3	20.6	12.6	55.7	19.9	66.2	8.8	0.2									
6th	24.4	-18.3	11	-6.9	-8.7	6.2	-28.6	18.7	-31	23.5	18.4	-5.4									
7th	1.9	-1.9	1.8	-0.9	0.6	2.4	-2.7	2.8	-4.2	2.6	2.7	-2.5									
8th	2.6	-59.2	-2	-8.6	-15.1	60.1	-24.5	108.6	-16.6	103	58.9	-115.9									
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725		Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Flap Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400								
34/ 8																					
MEAN	-343.5	-495.7		-372		-8136.4		-2608.6		-2608.6		-383									
RMS	326.6	341		263.1		472.2		640.7		640.7		70.9									
1/2 P-P	635.3	710.5		641.8		1008.3		1466.5		1466.5		141.9									
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE		
1st	42.1	-212.4	53.7	-170.3	35.3	-46.1	-567.8	-15.6	-171.1	108.7	36.5	-83.1									
2nd	-261.7	113.7	-246.9	113.9	-127.5	52.2	-134.8	123.5	124.9	-58.3	-28.2	2.5									
3rd	-183.2	127.5	-170.8	139.8	-142	121.9	30.6	16.8	-91.5	-50.5	-22.3	7.2									
4th	29.3	8.3	52.3	7.6	50.6	16.2	-64	59.1	598.5	-512	-2.6	-10									
5th	-11.7	-152	-15.2	-191.8	10.8	-149.6	74.5	79.2	-148.4	-183	-1.4	4.4									
6th	49.9	-32	33.5	-31	3.6	-12.2	1.8	0.2	-4.9	-5.6	4.9	-5.9									
7th	-4.3	-1.8	-13.6	7.5	-26.4	12.2	-8.4	3.5	9.6	-0.7	0.7	-1.4									
8th	-18.9	40.4	-38.8	161.7	-39.5	166.9	-178.3	-144.5	181.9	137.4	-2.8	7.4									

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
34/ 8	-2249.1	-5932.5	-2218.8	-6197	-3017.2	-3017.2	-970.8	-970.8
MEAN	265.7	538.6	277.6	684	572	572	48.1	48.1
RMS	608.3	1127.2	617.1	1233.7	1020.4	1020.4	994.4	994.4
1/2 P-P								
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	161.2	119	116	-672.9	-165.6	153.1	901	105.2
2nd	-212.8	74	138.3	-103.1	224.1	-66.9	-117.2	750.4
3rd	-113.3	-147.4	6.4	-32.7	-154.1	108	-29.1	111.6
4th	54.3	-2.2	-90.2	53.6	59.5	-6.5	5.4	463.5
5th	48.2	-36.3	-55.1	65.9	21.8	46.9	-76.9	37.7
6th	-28	18	26.2	-3.2	28.5	-14.7	-22.6	-13.6
7th	-2.7	-2.4	-15.6	8.2	-3.5	4	-11.3	7.6
8th	-24	-78.4	-183.2	-119.4	-13.6	-63.9	-204.9	-10.5
								-8.5
								-15
								-61.9
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.400	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
34/ 8	-1583.9	-373.5	-2049.8	-7512.5	-436.4	-436.4	-53	-53
MEAN	527.5	82.2	255.3	545.3	73	73	5.9	5.9
RMS	1167.9	152.2	598.9	1097.3	137	137	14.7	14.7
1/2 P-P								
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	310.5	-76	-41.7	102.1	-78.2	-12.3	-185	670.6
2nd	89.8	-61.1	-26.7	3.9	-260.9	83.3	161.5	-86.1
3rd	69.9	67.9	17.6	-8.6	106.5	151.3	-13.1	25.8
4th	453.9	-374.5	-3.2	-2.2	66.1	-5.1	-12.5	-0.6
5th	171.3	177.8	-0.3	-4.9	-41.8	28.1	64.3	-19.6
6th	32.5	-0.9	3	-2.5	-26.6	16.5	19.9	-3.1
7th	-1.4	-6.8	0.4	1.2	5.4	7.3	-5.3	-6.6
8th	80.4	54.8	-0.2	6.4	-28.9	-69.9	-179.1	0.6
								0.6
								-0.7
								1.1

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
MEAN	-959.8		-2424.4		201.8		447.1		382.3		-3.2		
RMS	387.5		230.2		136.9		220.6		253.8		383.4		
1/2 P-P	659.1		420.3		312		501.3		559.2		738.4		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-284.1	-184.4	-185.9	-137.7	-84.4	-121.1	-68.7	-136	-67.9	-149.4	-113.4	-252.7	
2nd	96.9	-40.5	56.6	-22	-1.6	-5.3	-48.5	8	-66.2	16.3	-176.1	41.4	
3rd	312.8	-191	175.2	-101.1	6	-17.4	-114.8	48.9	-161.1	82.9	-358.2	169.3	
4th	102.7	23.9	56.2	11.2	3.3	-10.9	-47.8	-23.2	-66.8	-23.8	-56.9	-6.6	
5th	-67.8	-122.2	-28.6	-46.8	6.6	54.1	40	144.4	58.6	171.7	24.8	6.6	
6th	45.8	-27.4	18.6	-10.3	-20.8	7.6	-57.5	24	-63.4	30.7	37.5	2.9	
7th	4.1	2.3	2.4	0.3	-1	-1.7	-5.8	-5.4	-6.5	-5.9	0.8	5.8	
8th	7.6	-76.3	-6.2	-12.3	-32.9	76.9	-50.1	139.4	-36.8	134.2	93.4	-148.7	
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725		Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Chord Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400		
MEAN	-297.3		-527.4		-536.3		-7142.2		-2551.1		-427.3		
RMS	490.4		528.2		419.5		1245		1089		80		
1/2 P-P	951.8		1023.1		982.5		2267		2371.1		156.7		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-127.1	-259.4	-88.5	-200.2	14.5	-53.2	-1447.5	879.5	-208.2	321.8	49	-78.8	
2nd	-289.7	78.8	-336.9	75.7	-264.3	30.1	72.1	126.6	196.3	-98.1	-36.9	4.9	
3rd	-319.6	229.6	-280.5	234.5	-238	189.9	84	30.8	-233.9	-149.4	-46.6	0.5	
4th	85.1	26.3	140.9	35.8	150.2	29	-94.9	67.8	1005.5	-787.4	1	4.1	
5th	-75.7	-344	-77.1	-407.8	-4.3	-289.3	186.6	177.6	-373.6	-449	-10.9	-9.6	
6th	95	-40.9	50.8	-47.5	-3.3	-20.8	-7.5	2.2	-13.2	-9.9	8.8	-7.1	
7th	4.1	5.6	-20.6	11.1	-56.4	10.6	-11.7	-2.9	15	1.1	1.7	1.7	
8th	-39.9	52.2	-68.5	214.8	-75.1	217.1	-196	-261	212.3	251.4	-3.1	8	

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
34/ 9	-1042.2	-4944.3	-982.2	-5328	-2231.4	-2231.4	-706.3	-706.3
MEAN	370.5	1273	363.2	1438.3	1198.7	1198.7	953.7	953.7
RMS	710	2291.5	705.8	2649	2247	2247	1969.4	1969.4
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	261.5	-38.9	-752	-1566.9	21.9	259.5	1810.7	-783.6
2nd	-58.1	24.1	-49.5	-124.6	65.4	-19.1	87.3	125.1
3rd	-226	-315.2	15.7	-90.9	-323	208.9	-81	-21.8
4th	100.2	20.9	-132.3	71.5	110.8	19.6	8.8	-10.5
5th	131.1	-83.5	-157.6	168.8	78.4	119.6	-211.7	-145.2
6th	-50.8	23.3	55.2	5.3	44.8	-19.5	-48.7	-16.5
7th	1.7	-6.8	-8.9	4.6	-6.2	-3.9	-3.8	-15.5
8th	-10.4	-107.1	-215.7	-231.1	-1	-83	-241.3	-267.3
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
34/ 9	-1500.6	-416.6	-869.7	-6566.1	-489.3	-489.3	-56	-56
MEAN	1025.1	85.9	357.7	1290.8	79	79	8.8	8.8
RMS	2262.3	171	679.2	2372.2	155	155	20.8	20.8
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	475.3	-392.3	-51.8	94.8	-175.5	131.9	699.3	1624.2
2nd	171.3	-74.8	-28.1	4.3	-100.6	26.9	-36.5	-108.4
3rd	180	146.4	43.3	-5.6	222	320.1	-37.8	84.3
4th	795.6	-730.6	-1.5	7.1	110.2	21.9	-40.9	25.5
5th	478.1	447.2	7.6	1.8	-110.6	88	176.5	-160.5
6th	55.8	25.9	4.2	-3.2	-40.8	23.5	16.1	32.3
7th	-12.3	5.7	-0.7	-2.9	-0.3	12.1	-5.7	-24.1
8th	92.5	105	-2.9	10.3	-17.3	-94.6	-198.3	-261.9

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
		Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.400	
MEAN	-275.1	179.7	374.3	519.4	440.6	64.8	438.8	822.4	8.7	-1.6	
RMS	375.7	210.6	108	223.9	269.4	438.8	822.4	8.7	-1.6	-278.1	
1/2 P-P	696.6	383.5	262.7	514	571	440.6	438.8	822.4	8.7	-1.6	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-194.6	44.1	-137.3	1.6	-63.4	-69	-68.8	-125.7	-74.7	-149.6	-162.5
2nd	50	7.3	28	5.3	-10.5	2.3	-47.4	4.4	-60.8	9.7	-170.3
3rd	383.6	-230	214.2	-121.7	4.6	-20.7	-145.8	61	-203.4	100.5	-439.7
4th	119.9	24.9	65.7	9.7	5.3	-17.2	-54.3	-32.5	-78	-32.8	-72.4
5th	-61.6	-116.9	-25.2	-43.2	7.8	54.5	38.4	144.6	56.3	171.1	21.1
6th	48.5	-17.8	16.4	-5.7	-27.9	5.9	-70.2	17.9	-76.2	23.2	51.2
7th	7.3	3.3	2.4	-1.3	-5.2	-6.8	-14.3	-12.1	-16.5	-12.5	9
8th	-0.9	-63	-8.6	-11.3	-24.1	63.4	-33.9	116.7	-22.1	112.4	69.9
RUN/POINT	Flap Bending, in-lb	Flap Bending, in-lb	Flap Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Torsion, in-lb	
		Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.400	Blade 1, r/R=0.400	Blade 1, r/R=0.400	
MEAN	-264.2	-528.4	-606.8	-6644.8	-2520	-442.5	-442.5	80.1	80.1	80.1	
RMS	554.5	586.2	478.3	1825.4	1425.6	160.1	160.1	160.1	160.1	160.1	
1/2 P-P	1104.1	1199.3	1076.8	3097.2	3014.5						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-195.8	-291.5	-145.3	-228.1	9.5	-66.8	-2381.3	846.1	-312.5	369.2	51.1
2nd	-332.4	55.9	-414.8	55.6	-353.2	23.9	115.9	85.4	239.7	-132.9	-38.9
3rd	-389.7	261.5	-348	259.5	-309.2	204.8	143.6	36.5	-336.3	-211.9	-54.1
4th	102.1	40	176.2	59.8	188.8	46.5	-131.1	61.2	1439.3	-993.7	3.3
5th	-67.5	-347.4	-48.7	-407.7	43.3	-286.8	206.5	158.9	-424.9	-448.8	-9.9
6th	105.5	-28.9	48.2	-42.6	-4.4	-16.9	-26.6	-24.4	-0.4	22.7	9
7th	10.9	3.1	-36.8	-2.2	-95.8	-6.8	13.4	31.2	-5.3	-28.5	1.1
8th	-36.3	41.1	-42.3	177.1	-57	173.8	-251	-252.7	270.3	243.1	-1.6

RUN/POINT		Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
		Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174	
34/10		MEAN	-344.9	-4453	-266.3	-4842	-1798.4	-584.3			
RMS	374.3		1871.5	368.5	2053.7	1717.8			1316.4		
	766.4		3042.7	712.8	3471.7	2976.6			2694.2		
	1/2 P-P										
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	30.7	61.5	-690.9	-2498.2	-43.6	16.6	2757	-739.6	2310	-584.6	1269.1
2nd	-19.9	-20.1	-80.7	-102.2	27.4	21.5	122.6	101.5	121	80.4	189.3
3rd	-274.3	-389.7	26	-157.4	-399.9	256.5	-142.5	-27.3	-104.8	12.1	99
4th	113.9	23.7	-169.6	112.9	128.3	25.3	15.5	19.5	175.8	-117.7	863.3
5th	117.7	-87.4	-146.2	189.7	80.9	107	-235.7	-124.5	-116.1	-54.1	304
6th	-53.5	17.2	47.5	19.5	49	-17.3	-38.2	-16.8	-27.9	-13.7	11.3
7th	6.5	-10.8	29.6	31.6	-9.9	-4.9	40.6	-4.7	30	-9	-1.8
8th	-8.2	-92	-277.4	-221.5	4.8	-61.1	-291.8	-253.3	-239.1	-243.6	-133.5
											-130.2
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
34/10	Blade 3, r/R=0.450	Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
MEAN	-1465.4	-431.2	-181.8	-6105.3	-6105.3	-507.1	-507.1			-51	
RMS	1393.6	85.4	380.1	1933.3	1933.3	80.2	80.2			10.7	
1/2 P-P	3045.3	171.7	698.6	3269	3269	156.9	156.9			25.1	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	709.9	-419.2	-54.2	86	53.5	14.9	607.5	2620.8	-70.8	-61.8	-6.5
2nd	211.4	-86.3	-30.7	5.5	-48.5	-22.9	-71.7	-71.4	32.1	1.5	-7.8
3rd	261.2	207.4	51.5	-1.1	271.8	403.9	-48.3	139.2	9.5	-48.2	-7.9
4th	1112.4	-1121	-1.7	16.4	125.9	29.4	-47.2	36	1.6	10.6	1.1
5th	566.7	430.6	5.9	5.4	-105.8	87.8	162.2	-193.1	-7.6	8.6	-0.5
6th	33.4	29.9	3.9	-5.3	-51.2	15.7	17.9	30.3	-4.9	4	0.9
7th	-32.7	-1	0.2	-1.2	-3.2	15.6	17.9	-6.4	-1.7	0.9	-1.6
8th	112.9	98.4	-2.7	10.6	-13.2	-79.2	-246	-246.9	-3.5	12.8	-0.5

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
MEAN	342.9	564.9	531	590.8	496.1	496.1	133						
RMS	475	277.5	142.7	257.9	309.1	309.1	491.4						
1/2 P-P	799	469.9	313.2	582	641.2	641.2	886.5						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-389	-58.5	-258.7	-60.6	-113.3	-101.4	-94.5	-144.3	-98.7	-167.8	-213.5	-301.6	
2nd	-14.3	31.7	-10.3	18.9	-22.9	6.2	-46.3	2	-56.8	7.1	-170.3	8.9	
3rd	421.2	-259.2	232.8	-136.2	-0.1	-20.4	-166.5	73	-231.9	117.2	-492.6	221.3	
4th	135.7	37.7	73.3	15.7	4.5	-20.8	-65.3	-43.8	-93.4	-45	-83.3	-19.9	
5th	-49.6	-139.8	-20.1	-49.7	2.9	67.5	26.3	175.2	41.6	207.5	21.4	-14.9	
6th	58.3	-22.8	21	-8	-31.3	6.1	-80.6	19.6	-88.2	27.5	62.7	7.7	
7th	10.7	6.5	2.8	-0.7	-9.8	-12.2	-23	-20.8	-26.1	-21.1	18.2	32.8	
8th	-13.9	-63.8	-15.6	-9.3	-22.4	70.4	-24.6	127.1	-10	121.1	59.9	-143.6	
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Chord Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400			
MEAN	-231.2	-534.2	-678.7	-6177.1	-2502.2	-2502.2	-458.5						
RMS	629.4	673.9	564.5	2384.5	1660	1660	84						
1/2 P-P	1294.2	1427.5	1239.4	3959.9	3510.3	3510.3	170						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-259.5	-309.3	-198.2	-243.7	7	-74.9	-2833.4	1721.6	-317.3	577.8	57.9	-64.5	
2nd	-379.6	25.2	-492.7	29	-440.3	11.4	250.8	105.8	303.6	-156.4	-38.3	5.6	
3rd	-424	293.5	-378.1	285.6	-347.4	228.9	202.6	42.2	-456.9	-249.2	-62.9	-7.3	
4th	120.1	57.2	210.7	74.5	226.1	48.6	-149.2	66	1653.3	-1156	8	15.9	
5th	-37.3	-419.5	-1.6	-487.9	97.7	-355.2	193.2	165.2	-413.1	-508.8	-6.1	-19.7	
6th	115.9	-31.9	46.5	-40.4	-11.7	-2.8	-17.6	-0.7	-26.7	1.3	9	-7.2	
7th	12.3	5	-56.9	-9.6	-133.4	-3.8	25.1	3.6	-20.3	-4	0	-1.3	
8th	-35.1	47.1	-26	193.3	-43.4	182.4	-285.5	-271	309.5	259.4	-0.1	9	

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
MEAN	268	-3814.5	380.6	-4701.9	-1636.8	-583.7
RMS	439.2	2410.9	432.5	2585.4	2169.4	1605
1/2 P-P	747.1	3966.5	704.9	4357.7	3715.6	3301.6
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	117.1	-119.3	-1487.7	-3001.3	145.7	122.7
2nd	46.5	-44.4	-218.2	-116	-42.1	44.8
3rd	-318.6	-437.9	37.4	-219.3	-441.4	291.2
4th	132.3	34.8	-185.4	104.3	148.5	38.9
5th	141.4	-81.9	-155.5	204.7	72	130.5
6th	-65.1	20.2	54.4	19.8	52.7	-16.6
7th	9.8	-14.3	31.5	-7.7	-14.8	-7.7
8th	-15	-95.3	-317.8	-246.5	-5.4	-66.5
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
MEAN	-1503.5	-447.3	448.8	-5819.2	-528.7	-47.4
RMS	1651.9	87	442.8	2462.3	83.2	14.5
1/2 P-P	3578.7	173.8	764.3	4204.3	163.1	30.5
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	781.1	-723.2	-61.8	79.3	-37.9	194.4
2nd	287.9	-89.3	-27.6	7.7	9.6	-47.8
3rd	364	258	57.7	-2.2	307.5	445
4th	1280.7	-1315.1	-4.5	21.1	146.9	42.4
5th	591.9	512.7	4.8	10.5	-123.5	84.1
6th	29.2	42.8	5.2	-4.4	-55	20.2
7th	-26.7	8.4	1.9	-0.8	-6	18.8
8th	135.3	98.4	-2.3	11.8	-20.6	-84.6

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570			
34/12		MEAN	1027.1	989.8	705.7	667.9	558.9	213.8	RMS	503.8	294.1	135	257.7	316.4	536.3
	1/2 P-P	MEAN	881.6	509	289.6	582.1	647.6	940.6	RMS						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-393.2	-1.6	-265.8	-24.2	-115.1	-89.5	-103.1	-144.1	-110.4	-171.3	-263.3	-317.			
2nd	-62.8	40.2	-39.5	23.8	-35.2	9.8	-51.2	5.8	-58.4	10.8	-167.8	2.			
3rd	461.7	-290.2	255.9	-152.6	-0.9	-21.9	-183.6	82	-256.9	129.7	-537.5	255.			
4th	146.5	47.6	79.5	20.9	5.1	-21.1	-70.1	-49.5	-101	-52.5	-95.9	-23.			
5th	-65.3	-112.2	-26.6	-39.5	11.2	58.3	46.3	147.7	64.2	173.2	14	-16.			
6th	64.6	-28.9	23.9	-11.9	-33.5	4.9	-86.7	21.7	-96.2	29.6	67.5	6.			
7th	19	4.5	5.2	-1.2	-15.8	-10.6	-35.6	-17.8	-39.9	-16.5	29.4	35.			
8th	-11.9	-55.1	-14	-8.3	-20.1	59.6	-22.8	108.5	-11.2	102.7	49.4	-126.			
RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.725		Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Chord Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400			
34/12		MEAN	-190.1	-528.1	-740.3	-572.5	-2488.8	-467.3	RMS	672.3	720.5	635.4	3085.1	1875.8	83
	1/2 P-P	MEAN	1372.4	1527	1401	4955.8	3761.6	180.9	RMS						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-313.2	-320.2	-235.7	-249.7	13.2	-80.8	-3755.9	2114.7	400.7	700.4	62.6	-55.6			
2nd	-429.9	7.4	-582.5	15	-540.7	4.9	332.3	150.2	359.6	-174.5	-36	7.7			
3rd	-475.6	329.8	-443.9	315.5	-427.7	258.5	301.5	39.8	-592.7	-325.7	-63	-10.4			
4th	153.9	66.4	273.2	76.9	286.9	42.4	-156	55.8	1866	-1298.2	12	24.5			
5th	-83	-352	-34.2	-398	107.7	-304	193	129.1	-461	-443.6	-1.1	-16.2			
6th	123.7	-37	50.5	-46	-5.3	-2.6	5.8	-11.5	-63.2	24	6.3	-8.7			
7th	22.4	3.1	-65.7	-8.4	-166.3	18	20.2	19.5	-10.8	-19.7	-1	-0.7			
8th	-29.5	40.4	-13.2	163.9	-38.9	147.4	-306.4	-189.3	333.2	189.8	-1.1	9.7			

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
34/12						
MEAN	962	-3370.9	1082.4	-4049.4	-1059.7	-372.6
RMS	470.1	3118.5	463.6	3207.8	2691.6	1916.9
1/2 P-P	847.3	4922.7	788.3	5286.4	4515.5	3961.9
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	43.7	-105.4	-1819.2	-3957.5	160.4	42
2nd	88.6	-53.8	-295.3	-144.6	-85.4	51.9
3rd	-342.1	-490.7	28.9	-321.7	-481.4	323.9
4th	145.8	40.3	-185.2	116.5	163.3	45.1
5th	113.8	-101.1	-107.2	224.2	88.5	103.3
6th	-78.4	26.5	48.3	11.5	64.6	-17.3
7th	4.6	-24.1	3.5	1.1	-23.7	-4.5
8th	-12.2	-76	-322.9	-175.9	-11.4	-47.6
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
34/12						
MEAN	-1429.8	-456.8	1118.5	-5136.4	-542.7	-41.2
RMS	1922.8	86.5	473.3	3130.6	84.8	19.4
1/2 P-P	4189.6	181.9	848.1	5091.3	170.6	39.5
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	947.6	-874.3	-67.3	69.9	39.5	175.6
2nd	329.1	-103.9	-25.7	11.1	54.5	-53.2
3rd	455.5	318.1	58.8	0.2	336.9	489.3
4th	1469	-1558.8	-1.9	30.4	158.7	46.5
5th	678.5	448.3	-0.7	8.3	-99.2	95
6th	31.1	44.5	3.7	-6.2	-60.8	23.1
7th	-5.9	-19.8	1.6	-0.1	-1.6	26.8
8th	144.6	62.2	-2.4	11.9	-19.1	-66.1

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb							
		Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.370	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.400	Torsion, in-lb
MEAN	1663	1383.6	866.5	739.1	616	285					
RMS	501.2	282.6	115.4	263.3	328.5	569.6					
1/2 P-P	929.9	535.6	255.2	581	664.6	1038.9					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-222.1	119.3	-166	52.7	-70.5	-62.9	-91	-143.3	-105	-177.5	-288
2nd	-143.1	59.7	-87.7	33.8	-49.6	12.3	-46.9	2.9	-49.6	7.4	-169.4
3rd	511.7	-314.9	284.5	-166.4	2.1	-25.6	-198.2	84.1	-277	134	-570.9
4th	153.9	34.7	85	13.6	7.8	-22.5	-71.2	-45.6	-103.2	-46	-107.9
5th	-55.6	-124.1	-22.9	-44.3	7.1	61.8	35.4	157.3	52	185	12.7
6th	67.2	-26.2	26.5	-10.3	-30.9	3.1	-85.2	16.2	-94.3	24.4	70
7th	16.1	5.3	4.5	-2.2	-11.7	-13.8	-28.5	-24.4	-32.8	-23.4	16.5
8th	-13.3	-61	-13.3	-9.5	-17.4	64.7	-19.1	118	-7.2	111.9	44.2
RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
34/13	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.370	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.400	Torsion, in-lb
MEAN	-145.2	-512.3	-800	-5166.6	-2451	-469					
RMS	715.6	774.3	678.9	4030.7	2133.1	85.3					
1/2 P-P	1495	1662.1	1447.4	6327.6	4209.5	198.1					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-351.9	-343.7	-271.9	-265.2	3.6	-82	-5081.7	2469.4	-571.9	849.3	70
2nd	-490.3	-4	-676.7	8.1	-623.8	0.2	424.6	165.6	419.6	-204	-26.5
3rd	-495.5	316	-459.6	291.1	-447.4	231	357.8	74.3	-674.2	-375	-62.8
4th	148.4	59.9	278.4	61.1	292.8	28.4	-165.6	42.9	2081.5	-1516.4	21.3
5th	-72.1	-376.7	-22.1	-417.8	121.3	-315.5	191.6	126.8	-457.2	-463.7	4.5
6th	117.5	-31.3	28.1	-43	-24.5	6.6	-26.6	7	-41.7	13.3	-11.5
7th	25.2	6	-51.5	-24.5	-160.5	-9.9	9.7	-4.4	12	-1.8	-2.8
8th	-27.4	38.5	-1.6	174.1	-32.3	146.9	-305.3	-188	331.8	188.6	-1.9

RUN/POINT		Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
		Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.174	Blade 3, r/R=0.325	
34/13	MEAN	1612.8	-2898.5	1745.2	-3659.2	-696.8	-257.1				
	RMS	503.4	4046.9	501.7	4121.5	3459.3	2344.6				
	1/2 P-P	956.9	6180.6	934.6	6647.5	5688.5	4681.6				
	HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	
1st		-96.1	74.2	-2062.1	-5284.6	0.3	-88.1	5277.3	-2353.1	4444	
2nd		142.3	-62.2	-368.8	-182.7	-158.4	64.1	406.3	228	357.2	
3rd		-358.9	-530.6	43.6	-382.1	-535.2	347.9	-355	-28.8	-252	
4th		154.2	30.6	-179.6	164.9	173.4	36.3	66.5	15.1	285.5	
5th		120.4	-80.4	-119.1	188.6	70.2	120.8	-229.4	-112.2	-98.8	
6th		-76.3	15.8	85.8	11.1	61	-13.7	-51	-16.6	-40	
7th		7.4	-26.3	6.1	-5.6	-18.7	-6.2	-15.3	-12.9	-16.2	
8th		-18	-61.5	-316.3	-155.2	-20.4	-47	-349.7	-167.1	-293.6	
									-174.9	-154.7	
	RUN/POINT	Chord Bending, in-lb	Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb	Torsion, in-lb		Pitch Link, lb	
34/13	MEAN	-1405.1	-459.3		1765.9		-4913.5	-549.6		-32.3	
	RMS	2214.4	86.2		507		4109	85.7		24.5	
	1/2 P-P	4723	185.7		958.6		6456.1	175.9		47	
	HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	
1st		1271	-1053.1	-75.8	57.6	154.6	-39.2	1997.1	5414.8	-42.2	
2nd		383.2	-105.7	-16.5	19.9	121.7	-66.6	-325.6	-182.6	23.2	
3rd		548.1	363.8	57.2	-4.7	253	533.8	-69	330.2	5.7	
4th		1541.2	-1840.8	7.4	36.1	167.7	37.8	7.5	35.4	17.6	
5th		668.7	479.1	-5.1	11.8	-111.3	85.8	173.5	-168.5	-13.8	
6th		32	67.8	0.6	-7.7	-61	21.6	24.6	40	-2.2	
7th		-19.9	-2	3.1	-0.1	-6.7	26.6	-8.4	-16.1	0.3	
8th		152.5	57	-2.5	11.4	-16.3	-65.8	-308.1	-174.6	-3.6	
									13.6	0	
										-1.7	

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
34/14	Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.570	Blade 1, r/R=0.570	
MEAN	3080.7	2261.9	1225.7	905.1	753	481.8					
RMS	677.7	397.4	131.8	269.4	346.8	643.1					
1/2 P-P	1346.5	783.8	283.1	570	700.9	1199.1					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-422.3	281.6	-294.3	158.5	-112.3	-26.7	-111.7	-139.1	-122.6	-181.3	
2nd	-314.3	110	-190.1	60	-78.9	20.4	-37.1	0.8	-25.9	-375.8	
3rd	583	-390.7	325.9	-208.8	3.9	-32.3	-223.3	100.8	-314.3	-141.8	
4th	173.4	31.4	98	9.4	19.2	-25.7	-65.5	-50.3	164.3	-635.6	
5th	-90.7	-90.6	-34.7	-33.8	26.7	45.7	81.6	117.3	-98.8	-139.4	
6th	62	-29.2	22.5	-12.3	-33.6	1.8	-85.2	19	105.4	136.9	
7th	25.3	12.3	6.9	-0.5	-19.2	-22	-44.5	-38.6	-93	10.4	
8th	-40.6	-31.4	-13.7	-3.8	21.5	39.8	49	68.9	-50.6	-26.9	
									-36.5	-26.9	
									32.8	-26.9	
									60.7	-26.9	
									-45.9	-96	
RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
34/14	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.400	Blade 1, r/R=0.400
MEAN	-37.9	-480.1	-913.9	-913.9	-3933.3			-2400.6	-2400.6		
RMS	792	858.8	752.2	5650.3	5650.3			2772.6	2772.6		
1/2 P-P	1688.9	1879.9	1544.3	8744.3	8744.3			5367.7	5367.7		
										217.3	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-453	-355.4	-355	-279.5	-10.4	-102.3	-6879.6	3930.5	-697.5	1247.2	72.8
2nd	-589.9	-55.2	-823.3	-29.1	-750.1	0.6	710.9	109.5	536.8	-230.5	28.5
3rd	-544	314	-542.9	261.1	-537.1	194.8	501.9	128.3	-949.1	-475.6	52.7
4th	151.4	70.2	306.8	48	283.9	-11.1	-289.2	26.2	2823.8	-1804.7	10.7
5th	-201.4	-287	-128.6	-284.9	94.8	-232	264.2	39.1	-615	-303.4	42
6th	108.8	-32.1	2.1	-21.6	2.8	57.4	-34.8	30.6	-43.2	17.1	-18.6
7th	45	11.2	-65.3	-43.1	-208.9	-18.9	35.1	68.5	-10.8	0.6	-16.4
8th	-0.6	27.8	98	97.3	34.2	42.4	-316.4	42.4	-59.2	-2.4	-2.8

RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	3040	-1720.4	3215.7	-2405.4	434.5	153.5		
RMS	631	5715.2	667.5	5587.4	4705.8	3072.9		
1/2 P-P	1241.7	8532.6	1321.2	8729.3	7476	6135.1		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-243.4	-40.7	-3294.5	-7314.7	225.6	-271.6	6810.8	-3879.4
2nd	283.9	-100.1	-586.8	-189.1	-322.5	105.2	712.2	5764.3
3rd	-434.5	-615.2	91.9	-525.8	-632.4	427.3	-490.5	-3200.4
4th	184.6	46.5	-228.7	257.9	196.4	34	79.4	171.1
5th	73.8	-150.7	-67.6	232.4	110.3	90	-264	534
6th	-82.5	21.8	75.8	-54	68.9	-17.9	-51.4	-337
7th	14.5	-43.7	52.1	14	-33.3	-13.6	-21.3	375.3
8th	-40.1	-24.5	-298.3	12.5	-30.7	-7.2	-330.8	-151.2
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Pitch Link, lb
34/14	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1
MEAN	-1273.3	-433.8	3165.7	-3680.9	-3680.9	-539.1	-4.9	
RMS	2787.3	105.4	647.9	5782.1	5782.1	104.4	44	
1/2 P-P	5893.5	193.1	1280.1	8843	8843	192.2	78.9	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	1558.5	-1638.1	-80.7	48.6	319.8	52.9	3174.3	7483.9
2nd	518.6	-120.9	35	54.5	280.5	-91.2	-580	-32.8
3rd	812.7	503.1	57	-27.7	432.9	616	-129	-19.4
4th	1881.3	-2213.3	28.9	57.3	201.5	54.9	8.2	-215.7
5th	812	282.6	-19.7	16.1	-84.2	140.8	106.6	432.2
6th	38	30.2	-1.3	-10.3	-66.6	14.3	49.9	-17.7
7th	-22.1	-5.9	5.2	1.4	-12.6	41.7	-33.9	-41.8
8th	146.5	-28.6	0.1	8.5	-39.8	-21.4	-298.1	-27.4

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
40/13													
MEAN	-3474.9	-1818.9	-457	0	0	0	0	0	0	162	-221.7		
RMS	370.4	222.8	92.6	0	0	0	0	0	0	103.6	227.8		
1/2 P-P	690.2	406.8	197.6	0	0	0	0	0	0	224	467.9		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-329.3	-56.3	-199	-54.9	-78.1	-66.8	0	0	0	-4.5	-100.5	113.5	-15
2nd	380.4	-114.6	227	-61.6	62.9	-17.4	0	0	0	-71.5	26.7	-234.8	71.
3rd	-31.3	-27.7	-16.1	-15.9	-2.6	-2.4	0	0	0	11.1	20.3	9	56
4th	31.2	-11.4	17.7	-5.4	-0.1	-0.9	0	0	0	-22.9	9.5	-21	1
5th	-20.7	10	-7	4.6	10.1	-1.1	0	0	0	31	-8.5	-2.5	-1.
6th	7.2	-10.7	5.2	-2.5	1.4	7.2	0	0	0	-2.7	16.7	0.7	-12.
7th	3.7	-3.2	3.9	-1.5	2.5	1.5	0	0	0	-0.3	2.9	-0.8	-3.
8th	-2.5	-22.3	1.5	-1.6	4.4	26.1	0	0	0	7.3	40.1	5.1	-53.
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800	Flap Bending, in-lb Blade 1, r/R=0.900	Flap Bending, in-lb Blade 1, r/R=0.900	Chord Bending, in-lb Blade 1, r/R=0.144	Chord Bending, in-lb Blade 1, r/R=0.570	Torsion, in-lb Blade 1, r/R=0.400						
40/13													
MEAN	-344.1	-419.4	-180	-8899.7	-2654.3	-350.4							
RMS	274.1	253.1	142.7	465.5	215.4	76.9							
1/2 P-P	507.1	494.6	348.6	909.5	561.8	128.4							
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	197.5	-159.1	195.2	-131.4	71.8	-44.7	590	33.5	0.8	69.2	43.3	-96.	
2nd	-238.8	125.5	-177.5	126.7	-20.6	62.8	-231.2	77.1	62	-38.8	-22.2	2.	
3rd	-37.7	78.6	-65	90.5	-68.2	91.7	19.3	-16.5	-33.9	19.2	-6.8	3.	
4th	11.1	-10.3	15.8	-18	-0.7	-12.7	-16.8	13.8	144.4	-163.6	-4.6	-1.	
5th	-50.8	3	-55.9	-0.6	-27.6	-8.2	34.9	-18.1	-80.8	33.7	-1.2	2.	
6th	14	-21.5	16.9	-14	10.8	-1.3	-10.4	12.7	12.2	-19.9	2.5	-1.	
7th	4.3	-1.9	3.9	4.6	4.1	10.4	14.2	-27.7	-10.8	28.3	0.8	-0.	
8th	3.5	17.3	8	66.9	6.6	72.3	-28.5	-27.4	29.5	24.4	1.1	2.	

RUN/POINT		Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
		Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.174	Blade 3, r/R=0.325	
MEAN	-3584	-6522.6	-359.5	-7111.5	-3818.9	-1342.3					
RMS	287.2	381.2	284.4	310.4	244.3	152.7					
1/2 P-P	533	768.4	484	666.4	504.2	374.2					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	128.2	-114	118.1	449	56.6	123.3	-286.7	154.9	-231.5	132	-81.6
2nd	-342.8	109.7	209.5	-80.8	358.5	-96.2	-231.7	78.2	-169.4	53	-54.9
3rd	-29.7	29.6	-16.4	-12.5	31.8	28.4	-21.1	24.7	-11.9	18.8	16.3
4th	30.9	-13.6	-40.5	23.7	28.8	-15.3	-18.1	3.8	7.1	-17.8	119.2
5th	-9.7	-28.7	13.6	26.3	18.3	-10.1	-39.7	20.7	-22.9	9.9	50.6
6th	-2.5	11.7	9.5	5.7	0	-11.8	3	5.2	1.4	3.3	0.4
7th	-1.8	0.3	16.8	-28.1	-2.6	3.8	17.8	-27	15.6	-21.2	1.6
8th	-21.6	-26	-27.9	-22.8	-16.9	-30.2	-32.5	-24.4	-26.2	-20.6	-15.2
40/13	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Blade 4, r/R=0.400	Blade 4, r/R=0.400	Blade 4, r/R=0.400	Blade 4, r/R=0.400	Torsion, in-lb	Pitch Link, lb	
MEAN	-1713.3	-346	0	-8265.6	-400.6	-78.1					
RMS	198.1	88.6	0	410.6	78.3	6.5					
1/2 P-P	517.4	136.3	0	809.6	128.9	13.9					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-13.9	-32.4	-45.4	114	0	0	-141.7	-470.5	-96.4	-49.4	6.7
2nd	12.1	-19.6	-21.8	2.5	0	0	264.8	-51.7	19.1	-2.1	0.1
3rd	36.5	-7.2	0.2	-4.1	0	0	22.6	22.5	-0.4	-7.3	-0.2
4th	157.8	-171.1	-8.5	0.2	0	0	-9.8	10.5	-6.9	1.8	0
5th	85.5	-36.3	-1.6	-1.1	0	0	-22.6	-16.4	1.1	-0.4	0.2
6th	-0.1	-8.1	2.1	0.4	0	0	-4.2	-1.8	-3.3	1	0
7th	-10.6	14.1	0	-0.3	0	0	13.5	-25	-0.8	0.1	-0.4
8th	18.5	15.4	0.9	3.4	0	0	-30.5	-29.3	0.7	4.8	0.2

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
40/14	Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	
MEAN	-2238.6	-1051.9	-142	0	264.3	-118.6					
RMS	273.6	162	101.4	0	188.7	261.2					
1/2 P-P	513.9	289.7	229	0	416.1	539					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-127.6	-151.8	-81.4	-114.7	-34.1	-101.1	0	0	-21.2	-126.3	
2nd	206.2	-88.8	123.5	-49.5	26.2	-15.3	0	0	-59.7	20.7	
3rd	138.5	-124.2	79.8	-67.2	4.6	-12.2	0	0	-70.5	56.3	
4th	53.3	12	29	5.8	1.7	-4.7	0	0	-34.5	-8.9	
5th	-41.8	-123.7	-15.9	-49.6	3.6	44.5	0	0	35.9	158.6	
6th	24.5	-13.7	11	-5.4	-8.6	2.7	0	0	-29.7	14.8	
7th	-5.2	7.3	1	3.7	8.7	0	0	0	14	15.1	
8th	28.9	-54.2	3.9	-7.8	-36	53.1	0	0	-5.8	-19.1	
									0.6	0.6	
									101.1	-85.6	
RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb			
40/14	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.400		
MEAN	-312.5	-466.1	-348.2	-8220.8	-2598.2	-393.7					
RMS	359	395.5	297.9	419.9	578.9	79.6					
1/2 P-P	723.8	786.9	660.5	886.2	1351.5	149.7					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	18.9	-200	31.7	-159.1	30.8	-47.4	-435.9	221.8	-123.3	162.7	
2nd	-229.8	106.3	-224.7	105	-134.8	42.9	-97.3	111	96	48.5	
3rd	-151.7	148.6	-132.7	152.7	-113.6	136.8	32.3	11.2	-89.8	-55.1	
4th	40.1	8.1	71.9	4.2	81.8	0.9	-68.5	33	495.5	-38.2	
5th	-37.6	-312.4	-52.3	-374.2	-14.6	-273	101.4	180.7	-202.3	-327.3	
6th	51.4	-24.5	28.2	-27.8	-14.4	-10.5	-2	1.7	-409.2	3.3	
7th	-4.8	2.5	4.1	0.2	-4.6	0.5	-21.2	5	0	-26.6	
8th	-32.9	33.9	-95.8	144.2	-90.7	146	-23.3	-147.9	25	-327.3	
									26.8	144.2	
									0.7	4.8	
									-6.6	-6.2	
									101.1	-85.6	

RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
40/14	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	-2341.7	-5869.3	-2311	-6484.5	-3232.5	-307.3	-1127.1	
RMS	286.7	466.7	294.2	616.9	998.9	998.9	452.5	
1/2 P-P	598.8	992.6	632	1238.3			940.6	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	234.4	84.9	-148.1	-561.1	-143.9	230.7	790.7	-162.3
2nd	-162.6	77.7	85.4	-114.7	167.7	-65	-67.3	114.1
3rd	-146	-135.7	9.9	-36.7	-141.3	136.8	-28	-7.7
4th	52.7	14.6	-56	51.2	57.8	11	10.5	-15.6
5th	124.5	-64.4	-145	103.8	56.8	123.5	-141	-166.7
6th	-30.4	8.9	28.4	0.2	27.1	-7.3	-25.6	-19.4
7th	5.8	3.4	-23.3	23.7	5.7	-7.3	-8.2	13.5
8th	11	-75.4	-33	-138	20.7	-62.7	-42.6	-146.9
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Torsion, in-lb	Pitch Link, lb	
40/14	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1	
MEAN	-1641.1	-383.5	0	-7658.7	-452.1	-452.1	-83	
RMS	543.9	88.1	0	470.1	79.7	79.7	5.7	
1/2 P-P	1285.7	166.1	0	957.8	149.5	149.5	12.7	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	265.3	-172.3	-49.3	105.8	0	0	115.1	567.9
2nd	69	-34.6	-28.5	5.6	0	0	122.2	-88.8
3rd	69.4	50.6	24.8	-8.4	0	0	-12.9	32.9
4th	318.1	-272.2	3.2	10.2	0	0	-29.6	-9.2
5th	314.8	431.7	9.1	-0.4	0	0	184.4	-88.8
6th	48.8	17.2	4.6	-3	0	0	18.2	21.8
7th	-3.4	-10.3	-0.5	-1.1	0	0	-8.7	-2.8
8th	15.7	59.1	-4.8	6.4	0	0	-30.5	-143.4

		Flap Bending, in-lb		Flap Bending, in-lb							
RUN/POINT		Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	
MEAN	-886.9	-213.2	212.9	115.7	0	0	378.6	16.8			
RMS	360.2	386.9	254.8	0	0	0	231.4	358.6			
1/2 P-P	627.3						483.8	669.8			
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-300.3	-123.7	-194	-99.6	-82.4	-106.6	0	0	-58.7	-149.9	
2nd	53.1	-33.1	31.4	-18.5	-6.9	-5.4	0	0	-51.5	15.3	
3rd	283.6	-198.8	159.4	-105.6	6.3	-19	0	0	-148.7	83.3	
4th	74.4	34.9	40.8	16	3.7	-10.1	0	0	-45.6	-29.7	
5th	-15.1	-131.9	-6.7	-50.6	-9.6	51.4	0	0	-3.8	177	
6th	33.1	-14.3	13.8	-6	-14.5	1.8	0	0	-45.5	12.9	
7th	-5.9	3	-0.6	1	5.4	0	0	0	-3.6	-27	
8th	20.4	-57	1.3	-10	-30.7	53.8	0	0	-45.1	90.5	
RUN/POINT	Flap Bending, in-lb	Blade 1, r/R=0.725	Flap Bending, in-lb	Blade 1, r/R=0.800	Flap Bending, in-lb	Blade 1, r/R=0.900	Flap Bending, in-lb	Blade 1, r/R=0.144	Chord Bending, in-lb	Torsion, in-lb	
40/15									Blade 1, r/R=0.570	Blade 1, r/R=0.400	
MEAN	-248.5	-477.4	-507.1	-507.1	-7372.5	-7372.5	-2559.1	-431.3			
RMS	461.3	500.7	418.9	1198	872.8	872.8	79.1				
1/2 P-P	926.2	1006.2	931.5	2140.2	1843	1843	156.5				
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-157.3	-251.4	-118.3	-202.7	20.6	-60.6	-1333	967.5	-162.5	372.7	
2nd	-277.2	71.8	-352.3	80.2	-318.2	31.7	121.4	102.7	176.8	-94.7	
3rd	-264.5	225.9	-220.1	223.7	-210	191.3	93.5	33.9	-227.9	-122.6	
4th	62.9	40.4	133.8	46.9	183.3	28.1	-78	43.2	702.5	-645.1	
5th	37	-344.5	43.2	-401	83	-293.2	118.6	199.2	-213.7	-479.5	
6th	73.5	-20	30.8	-28.6	-35.6	-4.7	5.1	-10	-23.7	-6.7	
7th	-1.2	1.7	0.8	-2.1	-29.4	7.4	-21.6	4.1	27.6	5.9	
8th	-33.4	32.6	-79.6	150.2	-73.7	150.1	-73	-191.8	83.8	-1.5	

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
40/15						
MEAN	-969.7	-5027.5	-909.8	-5651.2	-2465.9	-827.3
RMS	323	1227.5	316.5	1367.5	1143.8	857.1
1/2 P-P	572.1	2107.7	565.9	2433.1	2056.2	1774
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	184.4	-67.4	-790.9	-1498	47.3	181.8
2nd	-25.8	16.7	-93.8	-102.2	27.1	-16.3
3rd	-230.5	-290.8	25.4	-102.8	-293.7	218.3
4th	72.4	30.2	-93.1	67.6	78.2	31
5th	128.3	-36.8	-158.8	109.4	35.1	133.1
6th	-39.8	10.9	39	-0.1	32.9	-5.9
7th	3.2	1.5	-27.7	25	6.6	-5.2
8th	10.9	-70.9	-86	-191.4	11	-44.6
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
40/15						
MEAN	-1544.7	-420.8	0	-6873	-498.6	-82.1
RMS	872.5	87.6	0	1240.6	80.7	4.6
1/2 P-P	1913.4	167.6	0	2210.3	157.8	10.8
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	435.9	-442	-55.8	94.9	0	766.9
2nd	157.8	-65.4	-35	8.5	0	-88.5
3rd	181.2	121.8	36.4	3.2	0	-40
4th	514.4	-627.4	-7	17.5	0	-22.8
5th	344.9	510.1	7	6.6	0	203.1
6th	41.1	29.8	5.1	-3.3	0	10.5
7th	-9.6	-18.7	0.2	-1.2	0	-0.1
8th	40.1	74	-3.4	7	0	-76

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
MEAN	-204.3	209.5	209.5	374.5	0	0	439.3	79.6	439.3	234	394	698.3	
RMS	325.8	188.7	101.3	225.2	0	0	477.9						
1/2 P-P	555	331.9											
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-177.2	-103.9	-123.2	-86	-51.6	-105.8	0	0	-58.3	-160	-176.8	-283.6	
2nd	2.9	-17.5	1.5	-9.5	-17.5	-1.7	0	0	-47.4	15.2	-134.7	40.8	
3rd	317.7	-207.1	177.8	-109.7	4	-19.4	0	0	-172.8	89.9	-374.6	178.1	
4th	87.3	32.3	48	13.4	5.4	-15	0	0	-52.4	-36.7	-56.5	-12.5	
5th	-19.3	-115.4	-8.5	-42.2	-6.5	49.8	0	0	5.1	164.8	19.5	-2.1	
6th	33.7	-13.1	13	-4	-16.7	4.8	0	0	-49	17.4	31.2	-2	
7th	-4.2	-2	-0.9	-1	0.7	1.6	0	0	2.5	2.2	-4.3	-0.8	
8th	16.4	-34.2	-0.1	-6.7	-26	32.3	0	0	-37.6	58.4	63.8	-55	
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800	Flap Bending, in-lb Blade 1, r/R=0.900	Flap Bending, in-lb Blade 1, r/R=0.144	Chord Bending, in-lb Blade 1, r/R=0.570	Chord Bending, in-lb Blade 1, r/R=0.570	Torsion, in-lb Blade 1, r/R=0.400						
MEAN	-207.7	-470.6	-573.2	-6824.7	-2527.1	-443.3							
RMS	500	540.2	471.7	1938.4	1148.1	76.8							
1/2 P-P	1007.8	1112.6	1029.2	3168.8	2337.8	163							
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-220.5	-274.8	-172.8	-221.9	16	-62.6	-2371.9	1305.8	-287.3	487.3	55.2	-67.5	
2nd	-325.3	58.6	-439.8	73.5	-419.7	28	183.6	133.6	210.6	-111.5	-41.9	6.8	
3rd	-296.4	232.6	-253	230.2	-255.8	198.1	138.9	32.3	-303.4	-175.5	-38.9	-14.3	
4th	81.4	58.9	170.9	60.5	227.5	41.6	-114.7	49.4	1043.8	-851.2	3.8	12.6	
5th	17.2	-323.1	28.7	-369.1	90.1	-276.8	132.3	164.7	-258.1	-444.5	-5.1	-17.9	
6th	84.2	-20.7	39.3	-26.6	-28.5	-1.3	-16.4	5.2	-1.3	-9.7	6.6	-6.4	
7th	3.8	1.5	-3.3	1	-47.2	19.1	-0.3	-20.8	14.3	22.5	0.5	1.1	
8th	-29.4	17.8	-59.6	96.2	-56.2	92	-71.5	-159.7	83.5	152.8	-0.7	3.4	

RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	-282.3	-4510.4	-208.9	-5119.3	-1999.4	-661.5
RMS	336.4	1987.8	335.9	2151	1797.5	1241.4
1/2 P-P	696.1	3170.5	673	3575.3	3003.3	2456.6
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	163.3	70.9	-1117.3	-2544.1	-66.5	163
2nd	20.4	3.1	-144.2	-145.6	-21.8	-3.9
3rd	-244.6	-329	19.4	-155.7	-335.3	233.4
4th	85.1	35.3	-128.6	115	92.9	38.1
5th	109.3	-33.4	-142.2	115.2	34.4	115.4
6th	-36.4	7.8	43.1	15	28.6	-4.1
7th	2	-1	-9.1	-0.9	6	0.8
8th	8.7	-48.7	-87.4	-151.6	12.8	-30.1
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Pitch Link, lb
	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1
MEAN	-1482.1	-433.4	0	-6364.7	-515.6	-78.8
RMS	1156.4	84.5	0	2035.2	80.1	3.9
1/2 P-P	2459.8	170.4	0	3382.6	159.8	10.5
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	706	-593.8	-60.3	85.3	0	1073.1
2nd	191.9	-74.9	-35.1	9.7	0	-153.2
3rd	238.1	166.7	37.2	8.7	0	-42.5
4th	697.6	-901.7	-4.2	17.9	0	-19.9
5th	388.2	467.6	5.3	9.6	0	168.6
6th	9.4	43.5	4.3	-5.1	0	0.5
7th	-27.6	-1.3	0.6	-1.6	0	20.9
8th	42.5	63.6	-3	5.7	0	-74.6

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
		Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325
MEAN	415.6	595.2	532.4	0	0	496	496	151.8	151.8	151.8	151.8
RMS	397.3	235.8	122.2	0	0	261.2	261.2	434.8	434.8	434.8	434.8
1/2 P-P	670.8	417.6	251.7	0	0	530.5	530.5	770.8	770.8	770.8	770.8
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-331.6	-112.8	-220.6	-90.6	-92.9	-113	0	-80.1	-169.4	-225.9	-300.
2nd	-49.5	-0.5	-29.8	-1.1	-29.1	0.7	0	0	-47.4	11.1	-136.1
3rd	332.6	-227	184.8	-119.9	-1.6	-19.1	0	0	-194.3	102.6	-411.8
4th	83.6	33.3	45.2	12.8	3.5	-18	0	0	-55.1	-41.3	-63.2
5th	-21.3	-128	-8.8	-44.8	-6	61.3	0	0	6.8	192.1	20.4
6th	40.3	-16.1	15.7	-6.3	-19.5	2.9	0	0	-58.2	16.4	34.9
7th	-2	0	-3.3	1.6	-7.1	4.8	0	0	-8.9	5.3	8.6
8th	3.7	-30.6	-4.3	-3.7	-18.3	35.6	0	0	-21.6	58.5	51.5
RUN/POINT	Flap Bending, in-lb	Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
40/17	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.400	Blade 1, r/R=0.400	Blade 1, r/R=0.400
MEAN	-164.2	-457.8	-634.7	-6259.6	-2507.3	-455.6	-455.6	-455.6	-75.5	-75.5	-75.5
RMS	557.6	610.6	546.9	2501.3	1360.2	159.3	159.3	159.3	159.3	159.3	159.3
1/2 P-P	1124.2	1290.4	1174.7	394.5	2672.9						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-285.5	-283.7	-225.4	-228.6	16.3	-61.6	-2851.2	2026.3	-293.5	666.6	60.8
2nd	-374.7	49.1	-525.3	70.5	-511	30.9	309.5	146.4	263.9	-138.1	-38.6
3rd	-307.1	247.4	-258.4	240.1	-278.9	209.8	203.5	41.2	-397.8	-203.4	-40.6
4th	90.1	67	196.2	56.6	260.5	28.6	-108.8	64.3	1104.4	-1126.6	9.7
5th	10.5	-370.4	29.4	-419.9	105.3	-327.5	147.2	164.8	-303	-487.6	-4.3
6th	93.4	-28	36.9	-31.1	-36.6	6.6	3.6	2.4	-29.2	6.1	3.4
7th	2	2.1	-20.9	7.8	-77.1	43.5	-11.4	5.8	28.3	-6	-1.4
8th	-26.7	20.8	-38	102.1	-33.6	88.1	-127	-137	137	137	137

RUN/POINT		Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
		Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.174	Blade 3, r/R=0.325	
MEAN	351	-3965.8	433.4	-4563.7	-1504.5	-463.4					
RMS	361	2526.5	364.5	2654.6	2223.4	1505					
1/2 P-P	589.1	4001	567.9	4318.2	3652.4	2983					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	154.7	-76.6	-1760.2	-3065.5	99	163.4	3198.7	-1894.8	2699.8	-1548.4	
2nd	66.4	-13.5	-262.2	-156.3	-69.5	9.7	300.2	173.8	256.2	1441.6	
3rd	-269.6	-350.9	28.6	-219.5	-357	259.3	-206.6	-13.9	-151.9	248.3	
4th	85.3	33	-122.7	128.6	90.6	32	29.3	4.4	137.4	112.7	
5th	124.9	-40.4	-141.1	148.8	32.5	129.8	-180.1	-136.1	-83.2	154.5	
6th	-48.4	10	44.4	5.8	37.5	-6.5	-6.2	-28.9	-6.4	340.4	
7th	-2.5	-7.1	-27.2	15.8	-0.9	3.2	-16.4	8.3	-16	32.9	
8th	2.9	-43.1	-136.2	-129.1	0.1	-19.1	-141.7	-137.9	-115.2	-10.1	
										-84.1	
										-45.5	
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
		Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 4, r/R=0.400	Pitch Link, lb	Blade 1
MEAN	-1420.6	-446.2	0	0	-5844.9	-532.2	-75.3				
RMS	1381.8	82.8	0	0	2589.7	80.9	6.3				
1/2 P-P	2897.1	168.3	0	0	4175.9	164.3	15				
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	756.4	-845.7	-66.6	76.5	0	0	1744.1	3183.8	-61.2	-78	-6.1
2nd	242.3	-81.3	-31.5	13.5	0	0	-267.4	-136.8	34	-5.2	-2.3
3rd	297.8	206.6	38.8	6.6	0	0	-48.6	198	15.8	-32.9	0.8
4th	743.5	-1136.7	-0.8	21.2	0	0	-0.2	14.6	3.9	20.1	-0.3
5th	452.7	511.1	3.5	11.5	0	0	177.9	-136.8	-14	5.6	0
6th	23.5	60.4	1.3	-3.9	0	0	-3.9	34.7	-1.9	4.6	-0.1
7th	-11.6	-13	2.5	-0.4	0	0	-7.9	-5.2	-1.4	-1.9	0.1
8th	66.3	44.5	-1.1	7	0	0	-131.5	-131.9	-2.6	6.7	-0.1

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
40/18		RMS	492.3	295.6	128.5	709.9	0	559.8	238.8	295.6	490.	867.5	
1/2 P-P			814.7	507.8	289.4	0	0	542.3	265.2	542.3	867.5		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-466.3	-38.1	-306.4	-43.5	-125.1	-99.3	0	0	-93.2	-175.4	-282	-319.7	
2nd	-91.5	39.8	-55.3	22.5	-37.6	9	0	0	-44.6	7.8	-140.6	10.5	
3rd	395.9	-273.1	221.3	-145.4	1.7	-23.4	0	0	-222.5	120.4	-472	224.5	
4th	98	42	52.8	16.8	3.5	-19.4	0	0	-66.7	-44.9	-74.1	-15	
5th	-7.9	-93.4	-5.7	-32.2	-13.1	44.9	0	0	-13.6	143.1	22.8	-11.9	
6th	43.7	-10.2	17.9	-3.7	-17.1	1.3	0	0	-56.5	10.2	35.5	4.7	
7th	9	1.4	4	0.3	-4.7	-0.5	0	0	-12.7	-2.8	8.5	9.9	
8th	-1.1	-32.6	-6	-8.7	-15.8	26.7	0	0	-14.8	50.9	34.2	-57.3	
RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.725		Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Chord Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400	
40/18		MEAN	-107.7	-434.2	-692.5	-5594.2	-2481.2	-462.5					
	RMS	599.8	660	616.4	3095.4	1680.3	74.4						
	1/2 P-P	1212.9	1408.5	1253.4	4828.9	3203.4	161.4						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-349.3	-301	-273.1	-247.1	19.5	-77.9	-3450.4	2626.1	-309.6	855.1	66.3	48.9	
2nd	-444.8	26.5	-637.1	57	-616.3	23.8	397.1	135	325.3	-153.2	-32.4	11.9	
3rd	-364.4	266.7	-319.6	258.4	-350.5	227.3	275.1	62	-510.2	-270.4	-42.6	-7.6	
4th	99.2	66.2	220.2	42.6	287.4	22.3	-104.8	72.3	1351.3	-1491.6	19.1	16.6	
5th	37.8	-275.7	75.8	-295.2	163.4	-249.6	129.4	139.8	-278.1	-408.7	3	-19.6	
6th	93.7	-26.2	25.7	-30.8	-45.9	9.3	-13.2	-8.4	-21.9	26.3	4.1	-6.3	
7th	10	3.4	-24	-15	-104.9	23.7	34.3	-23.4	-13.4	23.7	-1.5	0.1	
8th	-25.9	13.4	-24.2	82.9	-26.7	63.7	-118	-126	135.1	119.9	-3.2	4.5	

RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
40/18	1056.9	-3330.5	1149.6	-3893.1	-913	-247.5	
MEAN	413.9	3137.4	426.3	3193.9	2688.1	1864.4	
RMS	687.9	4855.7	733.2	5096.4	4358.1	3837.1	
1/2 P-P							
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	56.7	-182.6	-2278	-3758.8	235.6	67.4	3735.6
2nd	102.4	-44.3	-345.1	-144.8	-112.5	39.5	375.9
3rd	-311	-410.7	46	-300.4	-414.9	303.1	-279.7
4th	103	34.3	-138.4	151.2	105.2	32.9	30.7
5th	100.2	-25.1	-118.1	144.4	19.2	98.3	-177.6
6th	-44.7	8.9	30.7	17.1	34.1	-5.5	-4.5
7th	2.3	-11.1	8.7	-7.6	-8.6	-2.8	12.7
8th	0.6	-49.7	-141.5	-133.2	7.8	-19.9	-139.1
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Torsion, in-lb	Pitch Link, lb
	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1
40/18	-1358.6	-453.1	0	-5221.6	-542.2	-68.6	
MEAN	1767.5	80.5	0	3162.3	81.6	11.2	
RMS	3664	167.9	0	5008.4	167.5	21	
1/2 P-P							
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	855	-1079.7	-70.9	67.6	0	2252.9	3823.2
2nd	302.8	-86.2	-25.8	17.1	0	-338.5	-146.7
3rd	401.9	250.6	39	0.7	0	-67.5	269.2
4th	1053.8	-1570.2	4.8	23.7	0	15.2	33.1
5th	446.7	466.4	-2.4	12.1	0	161.1	-122
6th	-1.2	64.2	-0.8	-7.2	0	-13.3	33.5
7th	-30.2	-19.5	1.5	-0.5	0	28.1	-11.6
8th	71.4	49.9	-2.5	6.7	0	-118.4	-129.8

RUN/POINT 40/19	Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570									
	MEAN	1838	1480.5	896.8	0	628.4	329.3	RMS	495.9	294.2	119.5	0	273.8	531.5	1/2 P-P	872.2	510.7	266.5	0	559
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE								
1st	-381.2	-8	-259	-22.4	-102.9	-95.6	0	0	-95.7	-183.5	-325.7	-338.2								
2nd	-167.1	24.4	-100.1	12.1	-52.8	6.4	0	0	-40.5	10.2	-128.6	19.1								
3rd	438.2	-320.5	246.4	-171.6	5.2	-28.3	0	0	-237.1	136.3	-505.9	257								
4th	102.6	36	56.9	11.9	8.5	-24.3	0	0	-62.3	-51.3	-84	-13								
5th	7	-82.2	0.9	-29.1	-15.9	36.1	0	0	-27.2	118.9	21.4	-7.7								
6th	47.3	-17.1	18.7	-6.4	-21.6	3	0	0	-65.3	16.6	43	4.6								
7th	7.8	-4.4	1.1	-1.5	-10.7	2.4	0	0	-18.3	5.7	21.1	0.7								
8th	-4.9	-32.3	-6.3	-9.1	-10.7	25.8	0	0	-7.5	48.8	24.3	-58.1								
RUN/POINT 40/19	Flap Bending, in-lb Blade 1, r/R=0.725		Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Chord Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400									
	MEAN	-60.9	-429.5	-763.9	-4910.3	-2453.9	-462.1	RMS	644.8	715.1	679.3	4130.9	1935.1	78.8	1/2 P-P	1273	1527.6	1413.7	6415.7	3751.9
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE								
1st	-400	-309.6	-308.6	-251.7	15.8	-81.8	-4811.4	3229.1	-465.7	1025.3	71.7	-38.8								
2nd	-483.1	20.1	-706.1	45.6	-691.7	16.7	518.3	210.3	378.4	-174.3	-15.3	25.1								
3rd	-402.4	300.5	-368.9	289.9	-398.2	244.2	347.5	92.3	-636.7	-291.6	-46.9	-3.3								
4th	103.1	87.7	239.6	56.2	308.4	28.7	-119.8	73.8	1383	-1836.4	35.1	20.2								
5th	53.3	-232.7	114.6	-237.2	206.2	-215.9	144.8	94.3	-299.1	-325	8.3	-19.6								
6th	98.7	-31.3	12	-30.9	-59.5	15	-18.7	24.3	-13.7	6.1	2.4	-6								
7th	17.3	4.8	-27.9	-6.3	-120.2	45.7	36.1	-21.6	-7.8	18.8	-8.1	-5.6								
8th	-24.9	12.1	-4.6	86.6	-7.8	69.7	-153.1	-104.6	169.5	95.1	2.4	11.6								

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.174		Chord Bending, in-lb Blade 3, r/R=0.325	
				Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325	Blade 3, r/R=0.144	Blade 3, r/R=0.174
MEAN	1794.9	-2681.2	1901.8	-3253.4	-335.7	-335.7	-40.5		
RMS	442	4144.7	458.5	4183.9	3523.9	3523.9	2298.4		
1/2 P-P	762.5	6286.9	814	6573.8	5616.8	5616.8	4446.1		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	30.6	-79.5	-2797.6	-5099.2	168.7	31.6	5002.9	-3070.7	4239.6
2nd	161.7	-30.7	-441.2	-226.2	-180.8	22.4	502.1	267.3	429.1
3rd	-354.1	-451.6	46.2	-378.9	-460.2	348.3	-339.3	-44.4	-238.1
4th	110.8	38.8	-106.6	195.5	109.7	37.8	47.6	-37.4	187.1
5th	81.4	-10.8	-98.5	131	-1.3	91	-179.3	-88.4	-87.7
6th	-53.6	13.3	45.1	-8.2	41.8	-9	-13	-6.1	-15.4
7th	-4.7	-14.2	12	-6.1	-6.9	4.2	8.8	5.3	3.7
8th	-7.7	-48.8	-168.6	-98.9	3.5	-14.3	-177	-123.7	-147.8
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1	Pitch Link, lb Blade 1
40/19	-1292.5	-453.7	0	-4603.1	-4603.1	-547.5	-59.1		
MEAN	2017.2	81.2	0	4187.9	4187.9	84.2	17.3		
1/2 P-P	4195.9	164.3	0	6473	6473	164.7	28.6		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	1159.1	-1321.9	-76.9	56.6	0	0	2753.1	5201	-41.2
2nd	357.6	-97.3	-12.2	25.8	0	0	-437.6	-241.1	17
3rd	529.1	287	39.2	-3.6	0	0	-83.8	321.6	4.2
4th	926.8	-1827.2	22.1	27.3	0	0	34.2	15.1	24.7
5th	427.6	370.9	-6.3	16.1	0	0	140.5	-119.3	-16.8
6th	6.7	56.7	-4.2	-5.6	0	0	5.5	0.7	6.6
7th	-32.6	-14.4	3.6	-0.1	0	0	34.6	-2.7	-1.5
8th	77.5	30.6	-0.8	6.9	0	0	-144.2	-103.4	-3

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570		Flap Bending, in-lb Blade 1, r/R=0.400	
40/20		RMS	712.2	432.6	152.7	0	0	0	762.7	267	524.8	575	1014	327.4	
1/2 P-P			1287.5	789.4	316.7	0	0	0	573.1						
MEAN		3260.5	2365.6	1255.1	0	0	0	0	-113.4	-176.7	-431.3				
RMS		712.2	432.6	152.7	0	0	0	0	-6.5	5.7	2.3	-25.6			
1/2 P-P		1287.5	789.4	316.7	0	0	0	0	-212.3	167.2	-477.9	364.6			
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-608.4	235.5	-403.7	135.3	-155.3	-36	0	0	-113.4	-176.7	-431.3				
2nd	-500.5	137.1	-302.2	73.9	-111.9	27.9	0	0	-6.5	5.7	2.3	-25.6			
3rd	383.6	-387.9	216	-208.4	-0.6	-33.4	0	0	-212.3	167.2	-477.9	364.6			
4th	101.1	40.2	55.8	13.3	8.6	-33.6	0	0	-64.5	-63	-80.9	-16.6			
5th	-65.1	-28.5	-25.7	-9.8	17	20	0	0	73.6	53.6	12	-19.5			
6th	32.6	-14.5	11.3	-7.1	-19.9	0.8	0	0	-52.4	14.6	41	0.3			
7th	18.7	-1.1	4.2	-1	-16.3	-1.6	0	0	-37.1	-0.9	32.2	6.9			
8th	-24.2	-6.4	-4.1	-0.9	24.7	9.9	0	0	42.5	11.5	-46.1	-23.8			
MEAN	55.9	-388.6	-877.5	-2919.2	-2253.3	-449.1									
RMS	677.9	763.1	728.6	569.1	2217.9	126.3									
1/2 P-P	1387.4	1697.1	1538.2	8861.4	4519.2	298.9									
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-522.5	-280.2	-404	-238.1	-1.6	-102.8	-6172.3	5024.2	-507.4	1380.5	90.9	-12.9			
2nd	-478.5	-26.7	-779	29.1	-800.1	41.4	1036.1	58.4	448.6	-171.9	115.6	35.9			
3rd	-349.9	367.6	-345.2	339.7	-408	267.9	470.1	80.3	-759	-242.9	-20.1	-71.4			
4th	121	147.3	266	102.5	312.9	54.9	-240.4	128.5	1508.2	-2054.6	20.7	-28			
5th	-126.5	-107.5	-52.7	-60.6	120.2	-94.5	149.2	-17.7	-330.9	-149.8	-24.6	-13.6			
6th	76.6	-34	-10.6	-16.2	-28.8	42.2	15.8	30.4	-53.3	-30.6	-10.8	8.2			
7th	32.1	22	-34.5	-11.7	-144.9	30	36.3	9.9	-31.8	-14.6	4.2	3.1			
8th	1.9	4.6	78.1	33.9	37.4	-2	-97	2.7	90.9	0	6.4				

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
40/20						
MEAN	3326	-719.2	3400.9	-1492.9	1235.3	607.2
RMS	548.1	5912.1	634.2	5751.1	4851.8	2967.7
1/2 P-P	1087.8	8955	1211.6	8968.3	7651.6	5830.5
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-162.9	-172.9	-4344.5	-7070	353.8	-168.4
2nd	372.1	-37.1	-785.4	-248.1	-494.8	85
3rd	-386.1	-468.6	61	-485.1	-431.2	429.3
4th	138.5	31.1	38	214.5	116.2	46.5
5th	13.5	-84.5	0.3	163.3	64.5	39.3
6th	-50	18.7	21.4	-54.6	37.8	-3.8
7th	-1.5	-26.6	0.5	-22.6	-27.5	0.3
8th	-14.5	8.9	-96.9	6	2.2	4
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
40/20						
MEAN	-1002.1	-438.4	0	-2751.3	-538.8	-33.5
RMS	2358.8	119.8	0	5999	114.7	38.9
1/2 P-P	4958.9	249.3	0	9109	272.3	59
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	1377.5	-1942	-92.7	32.3	0	4344.7
2nd	462.1	-122.2	103.6	49.5	0	-826.1
3rd	687.4	277.3	13.6	49	0	-115.7
4th	883.7	-1873.2	18.6	-28.8	0	98.4
5th	438.3	145.1	22.3	19.8	0	34
6th	11.8	-31.4	-10.8	11.1	0	-2.7
7th	41	0.2	-5.5	-5	0	-39.2
8th	23.5	-1.4	4.7	1.2	0	0

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
17/12	1/2 P-P	RMS	889.6	MEAN	-3438.8	RMS	470.8	MEAN	-3438.8	RMS	470.8	MEAN	-3438.8
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	69.7	103.3	51.2	32.5	48.8	-46.9	68.6	-115.1	86.9	-140.6	277.5	-217.5	
2nd	565.2	-218.1	336.6	-118.4	92.5	-32	-54.6	25.3	-105.8	47.7	-297.5	124.8	
3rd	-233.8	39.7	-128.1	17.7	-12	5.2	62.9	-2.9	92.8	-2.8	190.9	48.5	
4th	7.8	-17.2	4.4	-8.8	-4.3	1.4	-16.4	5.8	-22.6	9.9	-10.5	13.1	
5th	17	32.1	10.2	14.1	4.8	-9.3	-3.2	-32.2	-10	-39.4	-7.8	-4.6	
6th	2.7	7.4	1.8	5.2	1.9	3.2	-1.4	-0.3	-2.5	-3.3	1.8	-2.7	
7th	-1.6	4.6	3.5	3.6	10.8	2.1	12.1	-1.1	8.7	-2.7	-17.9	-4.9	
8th	32.3	-19.4	2.7	-2.9	-37.6	15.3	-67.8	26.7	-62.9	26.6	82.3	-11.5	
RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.725		Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Chord Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400	
17/12	1/2 P-P	MEAN	-478.8	RMS	371.9	MEAN	-478.8	RMS	371.9	MEAN	-478.8	RMS	371.9
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	339.1	-210.2	248.2	-169.7	50.9	-45	10.2	-979	-213.5	-134.6	57.6	-128.4	
2nd	-239.5	177.4	-103.1	166.8	48.5	60.8	-396.3	127.2	47.2	-40.8	-38.7	-4.4	
3rd	118.7	68.3	47.3	88.3	26.2	112.4	73.6	-47.5	3.3	32.7	23.8	8.8	
4th	4.8	-20.4	7.7	-37.5	-45.8	-35	23.1	18.6	-212.1	20.6	-10.9	23.4	
5th	7.7	56.9	15.4	72.7	24.8	42.3	-19.5	-32	42.8	75.3	-1.4	-1.2	
6th	7	-1.2	-1.7	-7	-3.8	8.5	-14.3	0.9	21.1	1.2	1.5	-1.8	
7th	8.1	0.6	26.2	-8.3	11.5	-18.2	-3.2	-21.9	8.4	19.1	4.1	-0.5	
8th	-22.4	5.9	-91.9	34.4	-92.6	33.8	17.4	-34.8	-6.6	33.2	-1.9	2	

RUN/POINT		Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
		Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325	
MEAN	-3610.1		-6872.3		-3608.5		-7329.1		-3986.3		-1508.7
RMS	517.4		700.1		573.9		767.1		632.8		374.6
1/2 P-P	934.3		1237.1		1014.1		1380.8		1079.2		694.2
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-9.1	386.6	868.6	-191.8	-500	-71.2	285.5	916	213.9	779.9	273.9
2nd	-532.4	223	368.8	-138.1	547.1	-227	-434	165.6	-331	110.8	-123.5
3rd	64.8	201.6	-53.6	-41.6	212.6	-54.1	-66.7	65.7	-43	45.6	6.9
4th	8.1	-12.1	32.8	22	17.7	-9.7	-9	0.3	-26	11.8	-106.4
5th	-5.5	41.1	38.8	-48	-22.5	-16.2	33.5	33.8	14	22.9	-45.6
6th	-2.9	-8.2	3.9	20.6	8.2	3.8	5.1	-6.5	7.3	-3.2	-12
7th	4.8	7.3	6.6	-10.7	-1.5	-9.8	11.9	-9.8	6.7	-10	-9.5
8th	33.7	-56.7	11.2	-44.6	37.7	-26.2	11.6	-58.5	9.9	-45.4	6.5
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
		Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1	Blade 1	
MEAN	-1912.4		-327.6		-3362.2		-8634.1		-375		-69.7
RMS	305.7		124.7		507.9		775		107.8		7.7
1/2 P-P	647.9		199.5		869		1393.7		174.2		20.2
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	273.7	225.6	-65.2	153.7	105.3	-277.7	-991	48.3	-131.3	-64.5	5.2
2nd	-21.3	-21.9	-40.9	-2.4	-559.3	228.6	403.4	-116	29.3	5.1	-0.3
3rd	29.4	-14.6	-26.4	-1.2	-52	-233.9	52.8	70.7	-5.4	14.8	-2.3
4th	-146.7	93.2	-9.4	26	8.1	-14	4	-14.8	-7.1	21.7	-4.1
5th	-78.5	-52.9	3.2	2.7	29.9	-18.6	-66	42.4	-2.7	0.7	-0.3
6th	-9.9	23	1.6	-1	-9.6	-3.6	10.5	-1.5	-3	1.2	0.3
7th	-9.7	6.8	-3.5	0.9	-6.3	-3.4	-1.6	-23.2	0.5	3.7	0.9
8th	-10.5	32.1	-1.3	3.1	29.5	-39.9	19.1	-45.7	-2	5.6	-0.3

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
MEAN		-2220.3		-1064.4		-179.9		238.5		191.7		-249.7	
RMS		428.1		262.4		123.1		140.6		170.2		342.7	
1/2 P-P		722.8		451.9		242.7		319.6		354.6		674.5	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-66.5	-219.8	-37.3	-168.8	9.2	-139.6	39.5	-163.2	55.6	-182.4	193.1	-270.9	
2nd	526.3	-167.3	311.7	-89.4	81.4	-25.1	-61.3	17.9	-115.1	34.8	-328.1	86.2	
3rd	-74.3	-12.5	-39.3	-8.8	-4.1	-0.8	13.6	5.7	17.5	12.7	17.8	71.8	
4th	24.9	3.9	13.5	3.1	-2	0.8	-20.6	-4.7	-32.2	-4.1	-17.2	5.5	
5th	26.9	4.9	12.4	4.8	-4.5	2.8	-24	-0.6	-34.3	-1.2	2.2	-2.2	
6th	3.2	-1	3.4	0.7	3.7	3.4	0	3.6	-3.3	3	1.5	-0.8	
7th	-6.6	1.5	-0.4	3.1	9.1	6	11.7	5.8	9	4.2	-14.3	-7.8	
8th	25.6	3.4	4.2	2.1	-23.8	-2.6	-47.6	-7.8	-47.5	-7.7	51.3	24.6	
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800	Flap Bending, in-lb Blade 1, r/R=0.900	Flap Bending, in-lb Blade 1, r/R=0.144	Chord Bending, in-lb Blade 1, r/R=0.570	Chord Bending, in-lb Blade 1, r/R=0.570	Torsion, in-lb Blade 1, r/R=0.400						
MEAN	-454.1	-546.1	-349.2	-9159.9	-2804	-368.7							
RMS	358.1	290.8	165	699.7	282.6	105.7							
1/2 P-P	706.8	604.6	389.9	1320.5	623.3	183.7							
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	225.4	-251.1	175.1	-187	36	-39.1	-715	-500.4	-334.9	2.7	66.5	-121.5	
2nd	-322.8	128.6	-227.6	112.2	-44.7	40	-403.8	163.3	98.3	-64.8	-44.2	-8.5	
3rd	-31.8	109.9	-72.9	132.8	-83.3	124.1	73	-26.8	-23.4	24.5	14.1	16.1	
4th	14.6	12.5	27.7	15.2	-9.2	27	-6.1	-10.3	39.6	-36.5	-19	12.1	
5th	57.9	-9.8	68.3	-15.2	64.2	-10.6	-30.1	5.7	69.2	-18.3	1.1	-7.4	
6th	11.1	-19	7.7	-26.1	-2.8	-18.5	11	-5.2	-15.7	5.2	-1.2		
7th	-0.6	-7.4	20.5	-14.1	16.4	-15.4	-26.5	-8.2	22.9	9.1	0.5	1.8	
8th	-19.1	-6.4	-65.8	-11.4	-56	2.7	15.2	-24.7	-10.9	25.4	-3.2	1	

RUN/POINT		Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
17/13	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.174	
MEAN	-2364.6		-6712.2		-2341.1		-7213.7		-3833.3		-1528.8
RMS	475.6		855.8		489.5		907.8		755		483.5
1/2 P-P	890.6		1506.7		883.6		1619.2		1327.1		899.4
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	309.2	277.5	489.9	-1019	-331.4	243.7	1073.4	495.5	893.6	450.9	644.1
2nd	-489.1	173.4	355.5	-184.8	517.5	-179.9	-412.4	213.5	-307	151.6	-67.1
3rd	0.7	54.4	-30.2	-54.1	70	0.4	-65.6	44.5	-45.7	33.7	4.4
4th	21.9	5.1	-3.5	6.8	27.6	13.6	-1	2.5	4.2	-7.3	24.3
5th	28.7	50.1	-16.8	-29.4	-45.2	18.4	56	-12.3	28	1	-83.2
6th	-6.1	-3.7	16.8	6.8	6.9	8.2	0.7	-19.5	3.3	-10.6	-11.8
7th	-1	7.9	-32.9	6.4	4	-4.4	-23.8	15.7	-22.1	6.9	-12.6
8th	49.4	-18.4	17.6	-21.7	27.6	-0.7	21.9	-30.8	17.7	-24.4	14.3
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
17/13	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1	Blade 1	
MEAN	-1958		-364.3		-2144		-8509.2		-423.2		-70.2
RMS	383.2		123		429.7		827		106.2		11.4
1/2 P-P	801.6		196.9		725		1519.7		170.1		24.6
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	491	42.1	-74.1	145.9	-204.4	-170.8	-611.9	884.4	-122.1	-74	9.7
2nd	48.1	-38.6	-46.1	-6.6	-508.2	177.3	393.6	-166.6	33.6	8.1	-2.1
3rd	32.6	0.2	-17.8	-12.5	19	-68.8	28	71.8	-14.7	7.5	2
4th	17.9	-84.3	-22.1	14.1	29	12.3	3	-9.7	-20.5	8.6	-4.2
5th	-133.5	69	0.4	8.3	-3.3	-21.5	-12.1	28.3	-7	0.9	1
6th	-1.3	33.8	4.9	-0.6	-2.6	-3	12.1	16.2	-5.7	0.8	1
7th	13.5	-16.9	-1.8	-2.1	-3.3	-7	-17.2	-2	-2.8	1.7	0.5
8th	-12.2	9.5	-3.9	1.8	27.1	-17.9	17.9	-28.1	-4.5	3.5	-0.7

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb							
		Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.375	Blade 1, r/R=0.425	Blade 1, r/R=0.475	Blade 1, r/R=0.525	
MEAN	-934.9	-266.2	149.5	377.9	297.8	-143.1	-322.				
RMS	357.7	223.4	121.1	150.4	182.4	359.9					
1/2 P-P	643.9	407.9	281.7	307.7	343.5	664.6					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-75.1	-203.4	-51.7	-159	-0.9	-143.5	13.5	-176.3	22.5	-197.4	114.3
2nd	427.7	-117.4	250.4	-62.4	53.2	-19.5	-77.5	10.6	-127.3	26.5	-334.4
3rd	88.2	-21.6	48.9	-12.5	-1.3	-5.1	-44.8	2.8	-63.7	12.5	-140.6
4th	29.9	18.8	16.3	10	-2.2	-3.2	-23.3	-13.3	-32.9	-12.4	-24.5
5th	-5.9	4.4	-2.3	3.4	2.1	3	3.6	1.3	3.9	1.3	2.6
6th	8.9	7.3	5.5	3.8	0.7	0.4	-7.4	-5.2	-9.9	-7.2	6.7
7th	5.8	-6.7	4	0.2	0	8.3	-6.7	13.9	-9.7	14.4	11.1
8th	6.4	8.9	2.5	-0.2	-0.9	-13.4	-5.5	-22.7	-7.7	-23.1	-7.8
RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
17/14	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.900
MEAN	-433.2	-635.1	-552.2	-8958.2	-2813.2	-415.4					
RMS	401.9	359.7	240	1410.1	5352	106.1					
1/2 P-P	822.8	758.6	659.8	2130.2	1338.4	174.7					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	121.5	-315.4	111.1	-233.3	26.2	-57.7	-1951.9	-40.1	-511.9	162.5	77.9
2nd	-380.3	79.7	-335.7	62	-133.7	22.1	-312.9	180.3	192.7	-98.2	-45
3rd	-178.2	109.4	-198.5	139.1	-188.8	114.3	93.6	-8.9	-86.4	-65	8
4th	22.5	39.3	55.5	54.3	40.4	67.6	-12.4	-28.4	322.1	-284.7	-28.1
5th	1.3	-25.8	-1.4	-44.5	26.8	-38.2	39.9	13.8	-98.8	-67.3	4.1
6th	20.7	-17.3	22.5	-30.4	8.6	-42.5	-8.1	-20.9	-16.6	26.8	5.6
7th	-1.7	-9.8	3.1	7.5	2.9	17.6	19.9	-1.5	-21.1	10.6	-2.3
8th	-2	-10.8	-2	-29.9	7.5	-24.6	2.4	-11.1	6.2	12.8	-3.9

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
MEAN	-1077.7	-6486.8	-1034.3	-7017.8	-3591.1	-1477.8	
RMS	426.4	1660.8	432.8	1741.8	1454.7	943.6	
1/2 P-P	836.2	2505.7	833.6	2618.6	2163.8	1642.6	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	SINE
1st	303.9	298.3	50.2	-2316.1	-338.1	254.3	2423.9
2nd	-386	127.6	252.8	-232.4	408.2	-117.1	-298.3
3rd	-16.3	-106.7	-17	-84.1	-103.9	9.4	-90.5
4th	30.3	19.5	-30.9	1.4	31.7	28.5	4.1
5th	19.5	10.9	-19.3	12.9	-6.9	2.2	-19.5
6th	-10.6	-7.7	3.4	23.4	7	4.5	5.2
7th	-4.4	3.1	20	9.3	-6.4	5.1	30.3
8th	32.6	-10.2	-3.3	-10.5	14.8	5.8	11.4
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Flap Bending, in-lb Blade 4, r/R=0.400	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
17/14	-1989.3	-409.7	-865.8	-8340.4	-478.9	-69.9	
MEAN	742.4	122.6	370.8	1583.3	106.8	11.9	
RMS	1517.8	191.6	762.5	2410.9	177	23.9	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	SINE
1st	848.4	-171.8	-84.6	138.3	-215.2	-164.1	-172.2
2nd	163.5	-42.9	-43	-6.9	-415.4	116.9	313.2
3rd	62.6	96.8	-12.4	-18.2	24.6	99.9	7.4
4th	297	-437.7	-32.6	-8.3	31.8	33.1	-9.7
5th	53.5	55.3	-5.5	6.6	4.1	12.9	-11.5
6th	-32.8	32.3	4.9	3.1	-8	-6	-4.7
7th	-8	-23.6	1.6	-3.1	6.6	0.4	29.1
8th	-3.1	7.9	-5.2	-1.8	17.1	-2.3	10

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
MEAN	-369.6	82.9		209.7		435		338.8		-104.7			
RMS	323.2	206.9		126		158.9		191.2		366.1			
1/2 P-P	616.4	430.9		273.8		365.2		442.7		698.1			
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-187.1	-165.9	-124.8	-136.7	-32.6	-137.5	-7.8	-174	2.3	-197.1	73.1	-322.2	
2nd	343.4	-92.7	199.3	-49.7	32.5	-16.6	-82.9	9.7	-126.8	24.1	-335.4	36.6	
3rd	113	-28.2	61.7	-16.3	-3.3	-7.7	-57	4	-78	15.7	-176.3	65.3	
4th	43.8	25.6	23.8	13.6	-1.6	-6.1	-27	-19.8	-40	-18.4	-34.5	6.7	
5th	22	0.6	7.9	1.3	-9	0.3	-26.4	0	-32.7	1.4	4	13	
6th	10.8	4.9	5.1	2.4	-2.8	-0.3	-14.7	-3.5	-18.2	-4.1	16.6	12	
7th	10.2	-6.4	3.4	-0.7	-7	5.3	-18.7	10	-22.4	12.5	24.2	-13.5	
8th	13.7	5.1	3.7	-1.9	-9.1	-12.3	-20.7	-17.9	-20.9	-16.8	9.8	16.9	
RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.725		Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Chord Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400	
MEAN	-432.1	-671.8		-632.4		-881.5		-2791.7		-432.1			
RMS	440.1	417.6		312		1742.8		671.4		104.4			
1/2 P-P	915.8	847.3		878.3		2570.4		1483.8		180			
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	69.6	-318.6	81.3	-236.5	24.6	-62.1	-2414.8	365.8	-566.8	251.6	84.2	-106.4	
2nd	427.7	54.5	-410	36.8	-194.1	12.6	-183.8	188.8	258.4	-111.9	-44.8	-8.5	
3rd	-215.4	136.3	-229	175.1	-217.8	139	123.4	-16.1	-116	-109.5	6.1	18.4	
4th	26.9	41.8	71.3	62.2	58.5	74.3	-24	-37.8	521.4	-315.6	-22.6	-8.2	
5th	78.1	-34.2	95	-60	103.6	-50.5	20	36.8	-38.4	-113.2	9.9	-5.2	
6th	30	-26	37.8	-38.4	26.6	-51	-1.8	-29.7	-25.7	35.5	5	2.9	
7th	-2.3	-10.6	-11.3	-0.9	-13.1	5	-3.3	12.1	0	7.9	-3.8	0.7	
8th	-5.1	-9.6	-25.1	-18.4	-20.8	-13.8	22.2	-15.6	-3.9	24.2	-4.5	-1.9	

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
17/15						
MEAN	-501.4	-6349.3	-437.7	-6896.4	-3466.1	-1452.9
RMS	341.8	1978.3	325.6	2042.7	1713.1	1113.3
1/2 P-P	733.1	2895.5	709.8	2967.1	2519	2005.2
HARMONIC	COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE
1st	259.5	178 -271.1	-2762.2 -162.3	195.7 2845.4	-316.7 2393.3	1441.2 -278.8
2nd	-307.7	106 148.8	-255.1 331.5	-100.6 -193.4	264 -124.8	201.7 129.4
3rd	-24.6	-137.5 -22.4	-105.3 -139	13.2 -105.7	33.9 -85.4	40.2 3.2
4th	45.8	28.9 -49.2	9.5 50.2	38.3 7.2	5.7 77	-60.2 373.3
5th	31.1	34.2 -32.7	-9.4 -24.3	5.5 0.4	-31.3 1.1	-14.2 -8.8
6th	-11.7	-3.7 2.7	21.6 10	1.5 10.3	-19.9 3.3	-9.5 -40.5
7th	-5.5	-0.2 1.5	30.4 -13.2	4.8 21.4	44.5 12.3	31.1 -5.1
8th	41.1	-4.2 17.3	-16.8 22.3	14.4 32.9	-23.5 30.6	-15.4 25.7
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
17/15						
MEAN	-1983	-425.7	-294.2	-8220.6	-499.8	-68.3
RMS	894	120.5	290	1918.1	105.4	10.5
1/2 P-P	1925.2	196.6	648.3	2810.3	172.8	23
HARMONIC	COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE
1st	939.9	-292.9 -91.2	130.6 -144.4	-66.2 118.2	2687.2 -103.8	-92.3 8.7
2nd	222.4	-52.9 -43.6	-5.6 -329.1	97.6 201	-217.7 36.9	7.9 -5.1
3rd	81.8	139.5 -8.9	-20.1 33.5	129.6 13.6	113.4 -16	-1.1 1.2
4th	480.9	-527	-29 -11.6	48.2 43	-17.3 5	-26.7 -13.1
5th	2.5	106.7 -8.6	6.1 -3.5	-12.1 2.4	-6.9 -5	-8.4 -3.6
6th	-52.6	33.2 3.5	2.8 -12.3	-4.6 -5.8	7.8 -5.2	-2.4 2.8
7th	-5.8	-41.2 3.3	-1.1 4.5	4.1 10.8	30.8 -2.7	-3.1 -0.8
8th	-10.5	8.2 -5.6	-2.5 24.1	-8 29.9	-7.2 -5.1	0.1 -0.1

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570		Flap Bending, in-lb Blade 1, r/R=0.570	
1/7/16															
MEAN	297.6	498.5	462.7	512.9	401.5	-31.7									
RMS	331	212.2	132.4	182.8	217.8	405.3									
1/2 P-P	638.5	430.4	271.1	438.5	511.4	798.6									
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-191.6	-244	-132.9	-181.9	-36.7	-161.7	-19	-191.8	-9	-215.9	38	-348			
2nd	272.6	-73.7	154.4	-39	11.8	-12.9	-91.4	5.5	-132.9	14.4	-350.7	16			
3rd	163.2	-86.4	88.9	-47.3	-6.2	-9.9	-80.3	20.3	-110.1	38.3	-253.2	111.			
4th	47.7	26.7	25	11.9	-2	-11.3	-30.9	-30.1	-46	-30.1	-40.8	2.			
5th	24.9	44.2	7.5	16.1	-10.7	-20.5	-30.9	-55.7	-39	-65.4	11.8	14.			
6th	16.4	5.7	4.8	4.8	-11.5	1.7	-31.7	-3.9	-36	-2.2	32	1			
7th	10.7	-13.3	1.5	-3	-13.9	9.6	-27.8	17.7	-28.4	23.1	36.5	-29.			
8th	11.5	9.2	1.9	-1.3	-12	-18	-24	-30.1	-20.9	-26.9	6.2	22.			
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800	Flap Bending, in-lb Blade 1, r/R=0.900	Flap Bending, in-lb Blade 1, r/R=0.900	Chord Bending, in-lb Blade 1, r/R=0.144	Chord Bending, in-lb Blade 1, r/R=0.570	Torsion, in-lb Blade 1, r/R=0.400								
1/7/16															
MEAN	-414.9	-711.4	-737.6	-8479.9	-2786.7	-454.1									
RMS	495.4	490	352.7	2530.2	928.9	105.9									
1/2 P-P	967.6	1087.2	1007.9	3717.8	2025.1	184.6									
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	14.9	-339.2	50.4	-251.3	13.5	-66.7	-3370.9	1145.4	-689.4	442.3	98.4	-97.3			
2nd	-471.9	30.5	-480.8	9.9	-257.9	-0.4	-56.5	253.3	353.4	-128.7	-43.5	-3.2			
3rd	-283	202.3	-284	242.6	-273.1	182.2	184.5	-5.8	-235.2	-144.2	4.5	21.6			
4th	32.6	60.8	89	82.4	77.4	93.1	-4.7	-25.9	604.7	-652.6	-16.3	-10			
5th	87.2	82.2	109	75.8	120.7	43.8	41.8	-19.5	-106.6	9.9	17.1	-3.8			
6th	44.3	-21.8	47.3	-25.7	24.3	-36.9	-0.7	-16.5	-29.9	25	2.4	1.4			
7th	-3.5	-6.4	-18.8	15.9	-18.6	30.9	20.5	-23	-22.2	50.3	-4.8	0.5			
8th	-8.5	-7.4	-32.8	-22.6	-32.2	-21.2	25.4	-19.7	-6.3	28.7	-1.6				

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
17/16						
MEAN	179.1	-6051.5	260.2	-6604.2	-3174.2	-1347.3
RMS	371.9	2696.5	336.8	281.3	2358.6	1518.7
1/2 P-P	773.7	3926	750.5	4095.6	3496.9	2829.7
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	361.1	150.8	-1064.8	-3639	-134.1	278.4
2nd	-252.3	73.4	28.6	-308.3	264.2	-76.8
3rd	-86.6	-193.5	-31.5	-176.2	-200.2	-64.4
4th	45.9	30.3	-60.7	44.2	51.1	-171.1
5th	-17.1	37.6	30.7	30	-17	-38.3
6th	-17.8	-1.7	-9	37	14.9	-1.7
7th	-10.4	-2.4	-5.9	-20.5	-12.9	9.5
8th	20.9	-1.5	22	-31.6	21.5	9.8
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
17/16						
MEAN	-1968.8	-448	380.5	-7955.9	-529.7	-67.7
RMS	1221.4	120.7	311.5	2663.7	107.1	9.7
1/2 P-P	2625.7	200.6	700.6	3859.4	179.3	21.8
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	1169.8	-592.7	-105.6	120.8	-24.9	-39.6
2nd	325.6	-56.6	-41.1	0.9	-273	71.5
3rd	164.9	177.3	-9.5	-24.4	95.2	185
4th	553.1	-856.9	-21.3	-12.9	52.3	41.8
5th	101.9	-13.5	-12.5	6.9	31.2	-23.2
6th	-69.5	35.1	0.7	1.9	-21.5	1.6
7th	3.8	-30.4	5.4	-1.2	12.1	5.7
8th	1.2	16.2	-6.8	-1.4	23.6	-0.7

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
1/7/17	1/2 P-P	1611.5	1314.2	797.4	660.5	518	253.3	253.3	606.8	93.5	490	944.1	
MEAN													
RMS		320.1	202	138.7	213.7								
1/2 P-P		619.2	415.3	329.4	538								
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-224.5	-134.8	-163.9	-110.1	-49.1	-142.1	-36.9	-198.3	-24.7	-231.8	-20.3	-411.5	
2nd	68	-29.2	31	-15.1	-32.2	-5.6	-91.2	-1.7	-119.2	2.1	-327.9	-16.2	
3rd	314.2	-126.1	173.6	-67.7	0.7	-16.1	-125.5	22.8	-178.8	45.9	-412.6	130.3	
4th	91.7	38.2	50.2	16.6	5.1	-18.7	-40.6	-48.9	-62.9	-51	-71.7	-0.1	
5th	12.6	13.6	3.7	4.2	-6.1	-11.8	-16.2	-28.9	-18	-30.6	10.7	22.8	
6th	33.6	-3.6	11	0.6	-18.2	0.5	-48.2	-3.5	-56.1	2	42.6	22	
7th	23.3	-14.5	6.3	-7.3	-21.2	0	-40.3	8.2	-39.5	16	49.3	-14.7	
8th	22.3	-31.3	-0.3	-6.5	-35.6	22.9	-60.5	45.3	-49.7	50.4	64.2	-59.9	
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Chord Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400			
1/7/17	1/2 P-P	390.6	-781.8	-917.7	-7650.6			-2700.6			-472.6		
MEAN		603.7	621	485	4126.7			1696			112		
RMS		1316.2	1400.7	1402.1	6245.8			3697			186.8		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-68.2	-409.6	-2.3	-311.5	-1.6	-101.3	-5279.1	2416.2	-952.4	810	121.2	-84.5	
2nd	-532.7	-18.8	-609.8	-43	-385.9	-28.3	245.7	333.4	492.8	-150.2	-27.7	13.7	
3rd	-429.1	220.2	-405.4	257	-372.4	179.9	329.4	19	-374.8	-336.9	5.8	33.7	
4th	32.6	75.1	98.5	95.1	102.1	-32.9	-21.3	1407.4	-1226.5	8.8	-7.5		
5th	69.7	1.8	84.6	-25.9	123.2	-37.7	81.9	60.7	-245.4	-216.3	20.9	-10.4	
6th	76.7	-40.4	83.5	-41.2	49.7	-51.3	-7	-36.8	-51.5	50.1	0.8	-2.8	
7th	2.7	-13.6	-39.1	-10.1	-57.3	18.8	8.2	23.4	-2.2	18	-4.7	-1.9	
8th	21.9	24.4	-82.2	91.9	-92.1	89.7	-82.7						

RUN/POINT		Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
		Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325	
MEAN	1493.2	-5286.2	1596.6	-5660.4	-2343.9	-1051.3					
RMS	348.7	4233.4	316.2	4290.8	3610.2	2384.2					
1/2 P-P	781.3	6242.9	711.3	6537.5	5654.7	4582					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	224.9	184.5	-2093.1	-5573.5	-101.9	147.4	5545.5	-2374.7	4685.3	-1928.7	
2nd	-77	41.1	-246.7	-396.9	52.6	-36.9	219.8	442.4	221.8	362.1	
3rd	-142.9	-334.3	-3.2	-305.9	-356.9	131.5	-315.8	27.1	-242.4	58.2	
4th	88.5	32.4	-109.1	88.1	99.6	47.5	99.8	11.6	253.1	-185.7	
5th	19	23.5	-19.1	40.4	-4.2	-27.5	-79.5	-71.6	-28.4	-42.6	
6th	-39.7	17.6	21.2	18	30.8	-8.7	5.7	-26	-3.9	-18.3	
7th	-14.9	-23.7	-0.8	10.9	-30.7	15.3	12.1	52.3	3.5	33.8	
8th	14.8	-50.8	-102	-165	31.1	-16.6	-89.7	-162.4	-69	-147.2	
RUN/POINT		Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Pitch Link, lb	
17/17	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 4, r/R=0.400		
MEAN	-1847.2	-467.2	1673.9	-7231.8	-559.5	-58.8					
RMS	2041.3	123.1	300.6	4230.3	113	9.4					
1/2 P-P	4360.3	188.3	719.5	6251.5	179.9	24.1					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	1607.2	-1094.7	-128.2	103.4	-128.9	-86.4	2057.3	5587.5	-75.8	-129.2	-0.4
2nd	490.3	-41.4	-20.9	20.7	-96.3	27	-183.9	-396.3	29.9	-8.8	-6
3rd	253.1	371.3	-11	-34.5	149.7	322.3	-8	295	-27	7.7	3.3
4th	1145.5	-1620.9	-4.3	-10.3	100.3	50.2	12.6	50.4	1.7	-17.3	5.1
5th	280.9	174.1	-19	7.8	8.9	-0.2	13.5	-39.7	-9.9	-21.7	-2.1
6th	-79.8	39	-1.5	-1.7	-36.4	14.3	8.6	9.2	-0.5	2.7	-2.8
7th	-3.4	-56.8	5.9	1.5	15.9	24.3	14	48.1	-0.4	-5.5	-0.3
8th	47.3	69.3	-7.3	5	4.8	-46.7	-76.9	-160.9	-4.6	6.9	-1.4

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
MEAN	2958	2151.9	1138.3	817.5	645.7	243.3							
RMS	445.8	263.9	159.5	256.3	309.3	607.7							
1/2 P-P	864.2	541.3	364.2	621.1	713.5	1169.4							
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-113.8	-215.7	-103.4	-149.2	-18.1	-168.5	-33.7	-218.7	-23.9	-254	-55.6	-464.3	
2nd	-104	-54.5	-70.1	-32.6	-62.9	-9	-92	2.6	-110.9	6.5	-318.1	-23.7	
3rd	502.8	-205.2	281.3	-108.4	12	-19.9	-181.9	43.3	-263.4	77.2	-611.6	172.5	
4th	132	47	74.9	16.6	17	-31.6	-40.9	-74.9	-71.1	-81.7	-97.3	-3.5	
5th	9.2	47.6	2.7	17.4	-1.4	-27.8	-9.1	-67.7	-10.4	-77.2	12.8	29.4	
6th	43.5	8.1	14.7	6.9	-20	-0.4	-56.7	-13.5	-69.6	-8.4	54	29.3	
7th	38.9	-18.5	7.1	-10.8	-41.3	-3.3	-72	7.8	-67.6	16.4	81.7	-3.5	
8th	18.2	-9.9	-2.4	0.5	-30.4	8.1	-53.4	15	-42.5	22.8	34.6	-25	
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800	Flap Bending, in-lb Blade 1, r/R=0.900	Flap Bending, in-lb Blade 1, r/R=0.144	Chord Bending, in-lb Blade 1, r/R=0.570	Torsion, in-lb Blade 1, r/R=0.400							
MEAN	-343.7	-838.7	-1081.7	-6393.4	-2623.9	-462.3							
RMS	743.3	768.2	611.5	6424.8	2910.2	137.9							
1/2 P-P	1647	1746.4	1702.2	9626.6	5954	244.6							
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-138.2	-486.5	-54.8	-389.4	-31	-156.7	-7722.7	4693.8	-1289.2	1387.6	149.2	-76.4	
2nd	-568.9	-47	-702.2	-85.1	-496.9	-62.5	413.5	622.8	629.8	-114.9	3.2	51.5	
3rd	-622.6	276.2	-581.1	314.3	-513.6	215.5	438.3	61.9	-691.5	-562	20.3	56.4	
4th	25.3	113.2	90.8	144.2	94.1	137.1	-151.2	13.8	2596.6	-2256.4	40.5	2.4	
5th	56.2	85.5	75.4	78.8	129.3	40.4	113.4	91.8	-337.1	-262.9	34.4	-13.4	
6th	95.6	-30.1	104	-20.8	71.8	-28.5	-49.2	13.2	-36.6	31.3	2.5	-3.8	
7th	12.3	-12.5	-75.9	-15.4	-113.7	22.9	30	-18.3	-8.4	53.6	-3.8	-3	
8th	-14.4	17.6	-73.8	46.2	-103.5	32.5	-216.4	-83.8	263.9	76.5	-7.5	4	

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
17/18						
MEAN	2845.5	-4144.7	2987.2	-4745.8	-1517.7	-810.6
RMS	529	6528.9	494.6	6355.8	5361	3600.4
1/2 P-P	1041.5	9713	938.4	9601.6	8375.7	6985.9
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	322	315.6	-4011.3	-8258.7	-204.4	194.8
2nd	26.2	83	-358.2	-688.1	-111.2	-74
3rd	-210.9	-521.8	80.2	-440	-555	208.7
4th	130.4	42.9	-162	199.5	151	64
5th	-27.1	25.4	-66.6	85.7	1.6	-75.4
6th	-42.7	9.9	24.2	-14.7	34.7	1.7
7th	-12.3	-43.7	4.3	-36.6	-45.8	14.8
8th	-34.3	-44.6	-209	-54.3	-3.9	-8.4
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
17/18						
MEAN	-1789.2	-460.9	3008.7	-5994.2	-567.7	-40.6
RMS	3197.8	145.9	481.3	6487.1	135.4	22.6
1/2 P-P	6615.4	255.1	992.6	9722.3	236.4	56.8
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	2149.9	-1946.1	-156	86.6	-217.7	-254.4
2nd	657.6	46.5	13.9	61.2	14	60.6
3rd	529.7	617.5	-23.5	-63.2	231.3	503.1
4th	1661.8	-2818.8	15.3	5.4	154	57.8
5th	359.4	158	-34.3	13.7	45.1	-5.3
6th	-141.9	45.5	-3.3	-3.8	-50.5	10.7
7th	-7	-42.4	8.9	2.4	9.2	43.3
8th	133.5	29.4	-6.5	5.5	-17.8	-44.3

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	28/27	Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.370	Blade 1, r/R=0.400	Blade 1, r/R=0.570	Blade 1, r/R=0.570	
MEAN	-692.7	-114.1	205.6	319.1	306.7	-107.9					
RMS	410.8	256.6	131.6	152.6	181.7	358.2					
1/2 P-P	727.3	499.5	302.5	339.9	429.9	700.8					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-439.6	-16	-278.9	-43.2	-102.4	-96.3	-35.2	-161.5	-23.1	-182.1	
2nd	334.6	-100.8	194.2	-55.2	32.1	-16.4	-83.2	13	-120.1	26.6	
3rd	109.7	-59.7	61.1	-33.3	-2.6	-8.5	-55.3	15.3	-74.2	30.9	
4th	48.3	14.8	27	7.1	-0.4	-7.7	-28.3	-17.6	-39.1	-161.7	
5th	18	13.5	7.1	5.9	-5.8	-4.6	-17.9	-14.8	-22.7	-34.5	
6th	8.9	0.8	4.6	0.5	-1.8	-1.1	-11.5	-1.8	-15.7	-1.1	
7th	4.5	-11.3	2.3	-3	-3	8.2	-9.9	17.8	-10.2	15.6	
8th	13.9	-4	3.1	-3	-13.5	-2.5	-25.3	0.2	-24.1	2	
RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	28/27	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.400	
MEAN	-413.5	-637.3	-593.4	-8153.5	-2673.5	-421.9					
RMS	425.4	396.1	313.3	1178.4	635.9	103.2					
1/2 P-P	887.5	824.7	865.3	1755.6	1491.7	180.6					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	53.3	-294.4	72.8	-215.9	28.8	-55.1	-161.5	314.7	-410.3	230.3	
2nd	-413.9	80.1	-400.7	63.9	-192.2	27	-155.2	145.7	238.2	-124.8	
3rd	-186.6	160	-196	192.8	-189.5	155.2	106.6	-13.9	-126.8	-60.6	
4th	21.6	36.6	59.7	49.5	49.4	64.9	-35.3	3.4	448.5	-500.9	
5th	54.5	-9.8	61.4	-32.2	73.7	-39.8	29.9	-4.6	-69.3	-21.3	
6th	19	-28.6	24.4	-43.7	11.3	-50.8	4.7	-17.4	-31.5	24.2	
7th	-3.5	-7.6	-2.7	7.5	-0.8	17.6	24.6	-21.1	-20	5.7	
8th	-5.7	-0.7	-28.3	8	-24.3	11.8	23	-30.1	-1.2	3.2	

RUN/POINT		Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
		Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144
MEAN	-725.4	-5798.1	-662.1	-6192.1	-2949.7	-2949.7	-1278.8	-1278.8	-1278.8	-1278.8	-1278.8
RMS	277.6	1322.4	275.2	1478.6	1251.6	1251.6	839.3	839.3	839.3	839.3	839.3
1/2 P-P	567.8	1993.8	569.4	2226.6	1855.4	1855.4	1575.2	1575.2	1575.2	1575.2	1575.2
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	104.1	-143.9	-171.9	-1839	118.5	85.1	2062.7	-172.3	1749.9	-115.3	1058.7
2nd	-299.5	97.5	142.2	-169	313.2	-90.4	-124	184.7	-61.9	135.1	155.8
3rd	-47.3	-119.8	-33.5	-102.7	-121.1	46.9	-95.8	42.9	-75.8	39.7	18.9
4th	43.4	14.6	-58.7	10.6	51.6	13.2	25.8	-16	67.5	-77.9	252.6
5th	15.8	25.6	-9	5.5	-26.5	-5.4	-17.4	-2.5	-10.7	-0.4	13.4
6th	-13.6	0	0.3	17.2	9.1	2.2	-1.6	-16.3	-7.2	-7.3	-21.7
7th	-8.4	1.7	9.4	-9.6	-7.5	11.9	30.3	3.3	20.4	3.3	-2.2
8th	32.5	-24.5	10.6	-29.8	26.7	-1.8	21	-39.3	23.1	-32.7	19.7
RUN/POINT		Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Pitch Link, lb	
28/27	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Pitch Link, lb	Pitch Link, lb
MEAN	-1823.3	-413.3	-569.5	-7583.8	-485.5	-485.5	-41.3	-41.3	-41.3		
RMS	715.5	117.8	312.6	1365.5	105.3	105.3	8.4	8.4	8.4		
1/2 P-P	1564.8	198.7	565	2013.4	174.4	174.4	22	22	22		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	691.5	-241.4	-81.6	133.2	-20.2	222.6	85.4	1904.3	-110.7	-83	3.6
2nd	242.7	-96.9	-42	-3.7	-337.5	98.2	178.3	-165.5	38.7	7.1	-4.2
3rd	104.7	89.4	-6.6	-21.5	55	110.4	23.1	109.1	-13.2	-2.5	2.2
4th	296.7	-531.8	-26.8	-6.2	51.3	22.4	-6.9	22.1	-26.8	-12.1	-3.5
5th	42.1	38.2	-8.1	4.4	2.1	-16.6	-17	-4.8	-6.5	-9.4	3.4
6th	-27.3	39.3	2	1.4	-9.7	-1.4	-8.3	22.8	-4.6	-1.8	0.7
7th	-11	-15.4	3.7	-2.2	11	2.3	34.4	-3.3	-5.1	-2.5	-0.1
8th	-6.1	15.7	-5.3	1	27.5	-18.2	25.6	-27.9	-5.8	4.2	0.7

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570			
14/7		RMS	320.8	131.7	336.9	501.4	418	8.8	RMS	358.6	217.5	137.4	219.3	254.5	417.8
	1/2 P-P		699.7	401.2	318.1	534.7	557.1	908.7							
MEAN															
RMS															
1/2 P-P															
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-320.4	-118.3	-203.4	-107.3	-60.8	-134.2	-14.3	-185.2	0.5	-214	-24.5	-36			
2nd	55.9	-99.6	34.9	-55.2	-7	-8.9	-44.9	19.2	-64.4	29.5	-185.2	110.			
3rd	290.9	-122.8	163.5	-66	7.3	-18	-108.1	21	-153.7	44.4	-301.2	208.			
4th	75.1	29.6	42.5	13	6.2	-9.4	-30.3	-27.8	-48.9	-29.7	-48.5	2.			
5th	-12.1	-113.7	-6.8	-42.1	-13.1	47.2	-18.3	131.1	-12.2	158.6	23.4	-4.			
6th	42	-14.8	16	-5.7	-19.4	3.1	-54.6	10.4	-63.9	15.6	41.8	-1.			
7th	-4.5	-8.4	2.7	-4.4	10.3	0.9	14.4	5.4	13	6.3	-16.1	-6.			
8th	30.7	-59.3	-7.1	-14.1	-62.2	49.7	-100.4	95.5	-84.8	96.9	56.7	-161.			
RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.725		Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Chord Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400			
14/7															
MEAN															
RMS															
1/2 P-P															
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-361.6	-653.1	-664.5	-6733.4	-2763.8	-448.7									
RMS	503.7	536.7	417.6	1726.9	1143.6	113.6									
1/2 P-P	1075.8	1119.8	982.1	3060.8	2564.3	209.1									
RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.725		Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Chord Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400			
14/7															
MEAN															
RMS															
1/2 P-P															
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-21.2	-375.4	27.8	-289.6	12.4	-89.1	-2153.4	1027.2	-462.1	459.1	96	-114.1			
2nd	-303.7	100.8	-370.4	68.5	-241.2	18.4	113.4	205.4	229.8	-97.9	-41.6	18.7			
3rd	-315.2	199.7	-272.6	240.5	-257.3	183.3	129.9	16.5	-261	-216.9	-32.6	-2.8			
4th	40.1	42.7	105.3	42.6	124.6	70.7	-61.6	25.8	888.5	-854.1	-0.7	3.6			
5th	67.2	-307.2	51	-380.4	88.4	-283.1	126.2	215.2	-222.5	-550.7	-2.5	-10.			
6th	85.3	-29.7	51.1	-29.9	-32.3	-40.2	-22.8	-36.7	3.7	35	5.7	-5.			
7th	-13.2	-5	-10.8	-3.3	-40.2	23.3	3.3	29.4	-3.8	-15.9	0.1	-1.3			
8th	-60	30.6	-153.6	144.7	-121.1	160.3	-163.9	-161.1							

RUN/POINT		Flap Bending, in-lb Blade 2, r/R=0.144		Chord Bending, in-lb Blade 2, r/R=0.144		Flap Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.174		Chord Bending, in-lb Blade 3, r/R=0.325	
14/ 7													
MEAN	-448.5	-4467.2	-294.6	-5180	-2073.6	-835							
RMS	324.2	1938.8	306.4	2040.6	1720.9	1276							
1/2 P-P	688.9	3235.6	650.6	3475.8	2953.1	2524.2							
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	216.7	31.8	-954.2	-2518.7	-5.4	171	2629.6	-1052.2	2231.5	-848.7	1339.8	-691.2	
2nd	-27.8	90.1	-118.1	-230.3	28.6	-99.6	138.4	260.3	126.7	207.9	195.5	68	
3rd	-147.8	-309	11.5	-130.2	-316.7	136	-122	-4.5	-92.1	26.3	62.8	175.7	
4th	69.4	29.9	-83	51.7	83.1	34	26	20.7	131.8	-106.5	561.9	-646	
5th	118.7	-37.2	-166.5	122.5	30.1	102	-163	-179.8	-80.8	-88.2	164.6	320.6	
6th	-44.1	17.2	34.4	25.4	41.8	-13.8	-27.7	-20.2	-18.3	-10.7	15.3	13.5	
7th	-4	6.2	10.5	26.1	-0.1	7.9	25.5	27.4	14.5	20.9	-12	-12.7	
8th	40	-98.9	-190	-252.5	42.1	-64.3	-180.1	-284.9	-146.3	-264.9	-61.9	-152.3	
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400		Flap Bending, in-lb Blade 4, r/R=0.144		Chord Bending, in-lb Blade 4, r/R=0.144		Torsion, in-lb Blade 4, r/R=0.400		Pitch Link, lb Blade 1			
14/ 7													
MEAN	-1751.4	-439.4	-207.9	-6179.6	-514.4	-83.3							
RMS	1236.4	126.7	312.3	1767.5	116.6	10.4							
1/2 P-P	2706.1	229.1	649.7	3069.7	211.4	24.2							
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	826.3	-598.5	-100.7	137.2	-101.6	158.2	873	2288.9	-113.8	-106.4	7.5	-6.6	
2nd	212.2	-37.9	-34.1	22.6	-70.6	95.2	-92.3	-221.3	38.2	-12.1	-8.4	2.5	
3rd	181.8	228.5	32.9	-3	153.4	302.6	-24.5	120.7	7.2	-28.8	-3.3	-0.6	
4th	703.6	-978.5	-6.1	2.7	79.4	33.2	-24.4	35.4	-5.7	1.8	0	-0.2	
5th	337.2	525.4	2	2.8	-95.9	50.2	178.2	-129.8	-2.7	4.2	-0.6	-2.4	
6th	21.3	25	2.5	-3.8	-41.5	14.9	15.1	16	-4.6	3.6	0.6	-0.6	
7th	-23.9	-34.2	0.1	0.6	3	-1.2	22	32.4	-0.8	1.3	-2.2	-0.6	
8th	63.4	109.4	-8.2	9.9	12.4	-90	-146.6	-277.5	-8.9	12.3	1.4	-1	

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325	
15/ 6	MEAN	-251.3	170.2	351.4	508.1	420.6	420.6	15.7			
	RMS	413.4	237	111	208.7	248.8	391.3				
	1/2 P-P	817.8	466.3	268.7	524.8	544.2	824.6				
HARMONIC		SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	COSINE	-396.3	249.9	-252.2	115.9	-83.6	-40	-22.1	-151.4	-6.6	-190.9
2nd		50.5	-69.4	30.6	-36.9	-9	-2.2	-44.5	18.4	-64.5	27.4
3rd		254.9	-142.2	142.8	-76.7	2.8	-16.9	-101.2	31.3	-142.6	57.9
4th		79.7	25.6	44.8	11.1	6.4	-10.6	-32.2	-30.8	-51.4	-32.3
5th		-12.3	-123.4	-5.8	-45.1	-10.6	53.6	-14.3	145.7	-8.2	176.1
6th		36.8	-17	13.9	-7.2	-20	3.1	-54.6	11.3	-63.4	16.9
7th		-4.8	-7.7	4.5	-6.7	16.1	-5.2	22.2	-3.9	18.1	-2.2
8th		11.8	-65	-10	-12.3	-45.1	63.6	-68.2	117.7	-53.7	115.5
RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.725		Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Chord Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570	
15/ 6	MEAN	-364.5	-650.3	-662.2	-729.9	-2711.6					
	RMS	498.8	542.8	420.7	1345.2	1120.1					
	1/2 P-P	1072.6	1114.1	983.5	2387.5	2430.4					
HARMONIC		SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	COSINE	-21.8	-342.8	27.2	-266.9	11.5	-87.2	-1807.6	243.9	-402.7	285.7
2nd		-309.9	94.6	-378.1	67	-245.9	23.9	116.2	123	225.1	-115.6
3rd		-280.4	222	-237	259.8	-230.2	198.3	137.6	9.9	-258.8	-180.4
4th		41.8	50	106	52.8	124.6	72.1	-72.7	52.2	872.8	-882.6
5th		58.9	-342.7	44.1	-420.6	85	-310.5	146.8	227.8	-264	-568.4
6th		84	-36.8	48.3	-29.1	-35.2	-27	0.5	-34.6	-20.7	51.6
7th		-9.8	-5.6	1.9	-14.5	-23.6	12.4	-34.2	22.3	31.1	-11
8th		-49	44.4	-102.1	179.6	-64.6	189.3	-240.6	-290.6	270.7	-260.4

RUN/POINT		Flap Bending, in-lb Blade 2, r/R=0.144		Chord Bending, in-lb Blade 2, r/R=0.144		Flap Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.174		Chord Bending, in-lb Blade 3, r/R=0.325	
15/ 6	1/2 P-P	MEAN	-402.5	-4982.9	-308.7	-5316.3	-2145	-716.2					
RMS		286	1632.6	304.4	1689.5	1427.5	1081.2						
		603.1	2658.4	653.6	2875.6	2443.1	2131.2						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-123.3	-42.8	-276.8	-2234.9	70.1	-194.9	2305.7	-290.2	1949.7	-234.4	1174.8	-318.7	
2nd	-29.4	58	-98.5	-142.9	26.3	-72.9	118	163.8	110.9	127.4	181.8	13.1	
3rd	-166.1	-275.8	-3.5	-134.9	-284.2	157.5	-119.6	2.3	-87.3	31.8	67.9	153.6	
4th	78.1	28	-81.6	46.2	91.5	28.2	17.6	-4.7	120.3	-106.1	537.4	-557.7	
5th	127.5	-36.3	-178.2	128.6	38.7	107.9	-191.3	-181.8	-97.7	-88.2	197.1	332.9	
6th	-45.6	20.9	31.3	7.6	45.1	-11.2	-42.8	-7.3	-29.9	-2.4	17.5	21.1	
7th	-0.3	3.9	-18.4	20.2	-1.3	5.9	4.2	7.8	-4	1.3	-19.9	-27.6	
8th	10.4	-104.5	-269.2	-251.5	15.9	-71.1	-272.3	-296.5	-222.9	-275.3	-100.9	-159.8	
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400		Flap Bending, in-lb Blade 4, r/R=0.144		Chord Bending, in-lb Blade 4, r/R=0.144		Torsion, in-lb Blade 4, r/R=0.400		Pitch Link, lb Blade 1			
15/ 6	1/2 P-P	MEAN	-1669.3	-442.1	-165.3	-6675.5	-512	-78.3					
RMS		1096.6	124.2	358.2	1451.3	114.5	8.5						
		2493.3	225.4	783.8	2511.7	200.5	19.6						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	733.6	-346.6	-96.5	134.7	255.9	226.8	99.5	1986	-112.6	-103.9	4.1	1.6	
2nd	203.1	-76.4	-35.8	18.6	-68.7	61.8	-86.3	-119.1	38.9	-7.4	-8.8	2.3	
3rd	183	188	36.9	-6.9	174.5	261.8	-10.6	129.3	1.9	-27.6	-4.2	1.6	
4th	675.4	-832.5	-4.6	2.7	85.4	26.9	-30.2	33.3	-5.6	1.2	0.2	-0.1	
5th	406.3	525.1	3.6	3.6	-103.5	55.4	208.7	-142.5	-4.7	5.7	0.1	-2.2	
6th	44	12.5	3.8	-2.2	-36.5	12.4	30.6	39.7	-4.1	2.5	0.5	-0.7	
7th	-11.4	-19.7	-0.1	1	-0.3	1.1	-10.6	16.8	-0.7	1.4	-0.8	-1.6	
8th	103.3	114.3	-5.4	11.2	-16.7	-88.9	-228.5	-287	-4.9	13	0.6	-0.7	

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570		
15/19	1/2 P-P	MEAN	-3593.9	-1900.8	-509.7	131.8	130.2	-277						
RMS		RMS	382.6	233	105.8	123.6	154	323.4						
		1/2 P-P	610.7	370.7	221.5	251.3	334.4	675.5						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	
1st	54.3	-157.7	41.6	-124.5	44.8	-111.4	66.7	-135.5	83.4	-152.7	235.6	-233.5		
2nd	433.8	-230	262.1	-126.8	77	-32.5	-33.9	25.9	-75.7	47.9	-256.6	139.4		
3rd	-140.6	18.4	-75.3	7.1	-5	1.2	43.7	-2.7	62.6	-1.9	105.3	43.5		
4th	13.7	-25.9	8.9	-12.9	0.1	1	-8.9	12.6	-15.1	19.9	-16.6	19.9		
5th	-2	44.2	2	18	12	-14.6	18.7	-44.2	15.4	-53.1	-10.5	-0.7		
6th	1.4	-11.5	3	-4.4	4.2	5.4	3	13.6	1.1	16.3	-0.7	-6.8		
7th	1.7	-3.9	3.5	-1.3	5.9	2.5	4.3	5	-0.8	7.3	-1.3	-7.2		
8th	8.3	-2.2	2.2	0.9	-6.4	4.1	-15.3	5.4	-17	4.2	23.7	1.1		
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800	Flap Bending, in-lb Blade 1, r/R=0.900	Flap Bending, in-lb Blade 1, r/R=0.144	Chord Bending, in-lb Blade 1, r/R=0.570	Chord Bending, in-lb Blade 1, r/R=0.570	Torsion, in-lb Blade 1, r/R=0.400							
15/19	1/2 P-P	MEAN	-402.3	-431.7	-162.8	-8591.2	-2874.6	-354						
RMS		RMS	346.1	273.9	126.1	474.8	227.4	110.3						
		1/2 P-P	592.9	543.1	308.4	913.7	597.1	167						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	
1st	286	-239.4	214.1	-196.3	46.9	-57.8	-135.4	-522.5	-195.4	-13.7	65.5	-138.6		
2nd	-218.7	187.9	-110.8	172.1	26.1	64.6	-320.1	170.9	35	-36.2	-20.5	16.1		
3rd	42.9	76.6	-10.5	96.3	-11	104.6	39	-33	-3.5	57.5	3.8	8.4		
4th	-11.9	-21.9	-11.3	-34.1	-43.7	-20.2	15.1	4.4	-58.7	-102.8	-2.6	1.7		
5th	-32.4	78.4	-32.6	88.7	-8.9	49.1	0	-71.4	-6	147.5	1.1	1.9		
6th	10.4	-26	12	-26.3	11.3	-11.6	8.4	11.7	-10	-18.5	1.7	-1.4		
7th	6.9	-2.3	16.2	8.1	8.2	11.7	-21	-12.5	18.5	13.9	1.8	0.7		
8th	-4	2.8	-32.1	11.2	-31.6	15.7	-0.6	-11.1	-1.8	6.4	-1.2	1.2		

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
15/19						
MEAN	-3787.2	-6071.6	-3761.1	-6728.3	-3519.1	-1461.6
RMS	474.4	487.6	517.1	592.1	482.6	321.3
1/2 P-P	795.5	949.6	808.9	1120.2	925.4	642.5
HARMONIC	COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE
1st	280.6	374.1 381.9	-453.1 -490.9	209 572.5	440.1 457.3	394.4 388.4
2nd	-398.3	223.7 262.7	-168.7 415	-232.5 -321.1	208.8 -244	151.7 -91.3
3rd	26.1	136.6 -42.4	-26.9 138	-22.7 -33.7	46 -16.5	29.5 18.1
4th	16.8	-31 15	18.4 24.1	-23.5 3.4	12 -0.5	-7.8 -28
5th	-28.3	5.2 13	54.6 10.9	-2.2 -44.4	27.9 82.5	15.3 46.8
6th	-5.2	1.8 -17.4	-7.5 -10.5	3.5 -9.9	-3.6 9.8	0 5.8
7th	-3	-18.9 -5.6	-9.6 13.4	-2.4 2.6	-10.8 -2.4	-11.6 -5.8
8th	11.3	-353.2	-3490.5	-3.8 -16	-4.8 -12.2	4.9 -14.7
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
15/19						
MEAN	-1962.6	128.9	-3490.5	-7913.8	-400.5	-85.5
RMS	289.1	186.5	418	470.4	112.5	12.2
1/2 P-P	623	623	647.7	948.6	168.1	22.8
HARMONIC	COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE
1st	318.5	42.6 -72.6	164.1 -181.1	-202.6 -485	219.3 -139.7	-72.9 11.9
2nd	-11.5	1.8 -20.7	20 -442.6	220.5 324.8	-148.2 44.8	-13.9 -11.1
3rd	28.2	-44 -7.6	-2.3 -17.3	-159.3 44.8	49.4 -4.5	2.8 0.7
4th	-48.9	-127.8 -6.8	6.5 17.6	-23.7 3.8	7.7 -4.1	-2.5 -0.6
5th	-35.8	-171.5 -0.3	1.2 59.1	-1 -83.2	15.7 0.9	-0.5 0.3
6th	5.5	-14.4 2.7	-1.7 -0.8	11.4 8.2	1.7 -1.8	1.4 0.3
7th	4.5	-0.8 -1.7	-2 1.6	2.2 -16.2	-11 -2	1.4 -0.4
8th	1.8	6.3 -1.9	1.5 7.3	-11.3 -1.6	-15.1 -1.5	2.3 -0.3

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570		
15/20		MEAN	-2245.7	-1066.4	-166.9	273.5	237.1	-178.9	237.1	163.9	303.7	607.8		
RMS			257.4	160.7	101.9	141.9	163.9							
1/2 P-P			488.6	286.8	210.7	322.6	344.2							
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	
1st	-49.2	-118	-27.4	-106.2	12.7	-116.5	37.4	-156	51	-178.8	137.7	-279.		
2nd	272.2	-183.3	164.8	-101.4	41.5	-24.8	-38.3	21.3	-71.3	40	-233.1	113.		
3rd	15	-45.9	11.5	-25.8	0.6	-4.6	-7.5	11.7	-12.1	22.6	-46.7	84.		
4th	35.9	-9	20.7	-4.6	1.8	-2.8	-18.7	0.5	-29.4	5.5	-26.5	15.		
5th	-8.9	-23	-1.7	-8.3	5.7	10.9	10.4	26.9	9.8	33.6	0.8	1.		
6th	13.6	-16.8	8.1	-6.3	-0.5	6.7	-11.3	18.9	-15.7	22.9	8.6	-11.		
7th	-1.8	-4.7	1.9	-1.4	7.5	3.2	8.1	7.4	3.5	9.4	-6.5	-13.		
8th	15.8	-42.3	1.7	-6.7	-20.9	40.8	-39.1	75.4	-35.7	73.1	68	-72...		
RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.725		Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Chord Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400		
15/20		MEAN	-401.8	-536.7	-373.2	-8154	-2829	-399.7						
RMS			337.2	313.3	203.1	633.6	381.1							
1/2 P-P			663.1	664.2	498.4	1225	1018							
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	
1st	156.7	-273.2	132.1	-209.2	28.8	-52.6	-751.7	-358.7	-299.5	65.5	73.1	-132.2		
2nd	-258.5	155.8	-214.7	136.4	-75.8	50.9	-180.9	187.7	97.2	-64.3	-30.7	15.8		
3rd	-78.2	128.2	-94	153.4	-86.3	136.1	44.7	-19.3	-66.9	7.9	-18.1	10.6		
4th	5.1	1.7	15.2	-7.5	-3	14.7	-7.4	9.4	207.1	-283.5	0.4	-4...		
5th	-2.2	-86	-6.7	-112.2	19.3	-100.6	44.2	33.8	-92	-87.4	0.9	1.4		
6th	31.7	-34.4	25.4	-26.8	0.3	-14.1	-7.4	8.6	8.9	-11.7	1.1	-2		
7th	-2.7	-3.1	4.2	8.9	-5.5	26.8	-19.1	-16.5	15.8	21.6	-1.1	-1.3		
8th	-18.8	26.8	-62.3	115.7	-52.2	124.4	-51.9	98.9	91.2	-1.3				

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
15/20						
MEAN	-2423.3	-5619.6	-2370.5	-6312	-3102.9	-1333.7
RMS	349.5	828.7	366.5	932.3	775.4	555.3
1/2 P-P	674.1	1462.7	645.7	1619	1329.4	1052.7
HARMONIC	COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE
1st	267.9	279.1 193.9	-1116.8 -358.6	190 1246.2	257.1 1034.5	243.7 719.3
2nd	-236.2	162 128.4	-183.9 254	-174.9 -178.4	220.5 -131.5	163.1 -0.8
3rd	-51.1	-24.5 -22.4	-36.2 -29.8	44.8 -32.3	33.5 -17.3	29.5 44.3
4th	37.3	-9.3 -23.4	37.6 44.6	-1.7 10	10 38.1	-36.2 154.8
5th	33.7	-10.8 -29.3	27.8 4.3	14.7 -30.6	-8.8 -15.8	-2.6 44.4
6th	-12.9	16.5 20.7	-0.5 15.1	-12.7 -6.9	-1.7 -1.1	-0.8 0.1
7th	-5.3	5.5 -24.1	-9.5 -1.4	3.1 -15.2	2.4 -15.1	-2.3 -1.5
8th	6	-69.1 -56.9	-89.8 9.6	-42.7 -57.7	-100.2 -45.3	-88.4 -12.8
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
15/20						
MEAN	-1938.6	-393.6	-2144.4	-7529.9	-454	-84.5
RMS	474.1	126.5	277.1	701.2	111.8	11.8
1/2 P-P	994.9	209.3	556.7	1295.6	185.8	22.2
HARMONIC	COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE
1st	507.9	-66.3 -77.3	156.7 -147.9	-111.6 -337.9	876.9 -131.6	-81.4 12.3
2nd	56.5	-19.8 -27.3	17.5 -283.7	164.7 189.9	-159.7 24.1	-10.9 -3.6
3rd	73.5	11.6 14.7	-7.4 58.2	3.3 22.3	55.5 -7	-13.8 -2
4th	180	-347.7 -4.7	-0.6 40.6	-4.9 -0.2	3.1 -2.7	-4.1 0
5th	80.6	49.1 -2.2	-3 -10.8	24.6 13.9	-41.1 3.3	0.1 0.7
6th	8.9	6.8 1.6	-1 -15.6	17.4 13.2	3.8 -0.8	1.6 0.1
7th	9	-3.2 1.4	0.6 2.1	0 -12.2	-8.5 0.4	-1.2 -0.1
8th	25.3	41.7 -1.9	3.8 -9.7	-60.1 -50.3	-94.7 -0.6	5.8 -0.1

RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	-1105.1	-5068.2	-1025.2	-5772.1	-2587.7	-1168.4		
RMS	319.7	1361.7	287.3	1429.7	1203.2	907.8		
1/2 P-P	655.9	2304.2	648.6	2482.7	2139.2	1806.1		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	319.2	-12.2	-645.3	-1767.1	-22.7	247.3	1866.6	-499
2nd	-98	105	-47.9	-202.5	105.9	-126.9	34.4	990.2
3rd	-131.1	-191.6	-15.7	-90.2	-199.3	119.4	-77.1	-465
4th	60.4	16.2	-49.7	41.4	71.6	24.4	28	57.6
5th	111.2	-12.8	-134.8	74.3	15.2	86.8	-116	125.1
6th	-36.5	17	40.3	17.3	36.5	-14.1	-23.2	92.7
7th	0	1.6	-39.1	3.4	-2.6	3.5	-11	-462.3
8th	19.8	-92.9	-141.2	-216.6	16.8	-74.8	-142.3	237.2
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Pitch Link, lb
	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1
MEAN	-1902.3	-431.4	-850.7	-7013.9	-499.6	-499.6	-81.9	
RMS	861	126.7	298.4	1200.9	114.4	114.4	10.6	
1/2 P-P	1857.1	225.2	585.5	2120.5	200	200	23.6	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	632.4	-411.6	-90.9	145.1	-199.8	177.9	532.6	-97.8
2nd	158.9	-37.4	-34.4	18.6	-142.1	108	-9.6	7.4
3rd	152.9	102.3	31.4	-6.1	142.4	171.5	2.2	-8.3
4th	390.1	-689.1	-1.7	1.8	69.5	21	-10.1	-7.3
5th	245	370.8	2.7	1.5	-85.3	37.5	146.7	1.6
6th	25	22.8	2.6	-3.4	-34.8	18.9	25.3	-3.8
7th	-4.5	-10	0.7	1.3	-2.1	3.1	-6.7	1.3
8th	55.5	94.5	-4.6	8.3	-4.1	-92.8	-120.5	-0.3

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
15/22													
MEAN	-337.1	117.1	321.5	488.7	404.1	408.6	-8.8						
RMS	393.3	245.3	163.6	235.7	270.2	856.7							
1/2 P-P	682.3	450.4	378.1	574.1	592.9								
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-278.1	-310	-176.9	-224	-50.3	-184.6	-8.4	-205.6	4.4	-228.5	19.2	-372.	
2nd	60.6	-123.3	37.4	-68.6	-8	-13	-47.3	19.8	-69	31.4	-216.6	81.	
3rd	257.5	-134.8	144.7	-72.6	4.5	-16.2	-98	28.6	-139.8	53.5	-308.2	141.	
4th	74	22.1	42	9.5	6.1	-8.1	-30.1	-23.8	-48.1	-25.2	-47.2	-9.	
5th	-2.5	-136.2	-1.6	-49.7	-14.5	58.5	-26.1	158.5	-22.4	191.8	22.5		
6th	43	-15.7	17	-5.8	-18.3	3.5	-54.5	10.7	-64.3	15.2	38	5.	
7th	-12.8	-8.4	-1.3	-6.7	11.8	-1.4	21	1.6	19.3	3.6	-18.2	-9.	
8th	32.6	-56.3	-5.2	-11.1	-61.7	53.2	-101	98.5	-87.6	98.7	135.4	-83.	
RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.725		Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Chord Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400	
15/22													
MEAN	-366.2	-654.1	-659.5	-7190.4	-2765.3	-453.4							
RMS	519.4	562.8	429.3	1895.1	1124.9	116.6							
1/2 P-P	1121.8	1164.3	997.7	3266.3	2496.5	214.2							
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-14.2	-361.8	29.8	-273.3	7.9	-75.2	-2246.2	1355	-483.4	513.9	97.7	-115.1	
2nd	-332.3	107	-394.7	73.5	-253	18.7	136.4	266.7	241.5	-97.2	-46.6	20.7	
3rd	-266.4	220.8	-221	263.7	-215.9	203.9	123.5	2.2	-281.5	-160	-34.1	-2.1	
4th	33.7	37.7	92.8	33.1	109.9	58.7	-62.2	33.2	817.7	-836.5	-1.3	10.5	
5th	86.3	-367	76.3	-449.9	105.9	-332.3	128.4	207.7	-231	-553.6	-2.7	-15.1	
6th	86.4	-35.2	48	-33.9	-37.8	-39.4	-27.2	-22	19	25.2	6.9	-4.2	
7th	-15.7	-6.1	-1.9	-10.7	-24.7	16.1	-26.3	2.7	33.2	10.2	-1.7	-1.2	
8th	35.1	-157.2	153.7	-126.1	164.1	-133.7	-304.2	160.2	160.2	283.1	5.7	7.4	

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
15/22						
MEAN	-492.5	-4704.4	-402.6	-5408.1	-2250.3	-1041.6
RMS	430.7	2125.9	389.6	2220.8	1863	1348.8
1/2 P-P	773.1	3519.3	759.5	3782.1	3230.9	2666.6
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	458.2	81.2	-1339.9	-2638	-88.1	379
2nd	-30.3	94.7	-146.2	-271.5	36.1	-122
3rd	-166.7	-277.2	4.2	-118.6	-283.8	149.4
4th	69.1	22.3	-74.9	68.1	84.8	28.7
5th	148	-20.5	-184.1	113.7	21.7	123.2
6th	-45.1	14.5	45.1	30.3	44.4	-11.5
7th	0.9	7.1	-36.4	-1.8	6.7	5.5
8th	25.3	-91.8	-163.9	-262.7	24.3	-73.9
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
15/22						
MEAN	-1867.4	-448.9	-245.5	-6661.1	-519.9	-79.8
RMS	1251.1	129.2	369.7	2009.3	117.7	12.8
1/2 P-P	2635.2	234.6	714.9	3433.3	206.7	29.6
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	868.7	-702.8	-101.6	138.6	-340.5	88.6
2nd	225.2	-32.1	-38.6	24.4	-71.9	93.8
3rd	206.3	167.9	35.3	-2.2	174.5	260.8
4th	568.5	-998.7	-7.2	1	81.3	25.2
5th	346.6	530.1	2.8	5.9	-122.8	42.7
6th	30.9	43.8	3.6	-3.5	-44.5	17.6
7th	-7.7	-14.3	1.5	0	-1.7	-2.7
8th	66.5	112.7	-6.8	9.4	4.4	-98.6

RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.144	Flap Bending, in-lb Blade 1, r/R=0.167	Flap Bending, in-lb Blade 1, r/R=0.215	Flap Bending, in-lb Blade 1, r/R=0.280	Flap Bending, in-lb Blade 1, r/R=0.325	Flap Bending, in-lb Blade 1, r/R=0.570
MEAN	373.3	558.2	506	572.4	471.4	54.3
RMS	399.7	241.7	147.8	239.2	281.3	447.7
1/2 P-P	754.6	448.9	349	567.8	612.2	902.4
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-359.9	-132	-230.8	-114.5	-145.8	-199.6
2nd	-47.7	-89.6	-27	-50.4	-27.5	-17.6
3rd	339.1	-123.2	188.7	-65.4	-6.2	-41.6
4th	81.2	38.5	46.2	16.5	9.7	-18.2
5th	5.8	-130.6	1.4	-46.6	-17.5	-14.8
6th	44.4	-10.6	16.4	-2.7	-20.7	2.4
7th	-9.7	-8.5	-2.7	-5.8	5.1	-0.8
8th	24	-49.7	-11.2	-14.1	-64.1	38.7
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800	Flap Bending, in-lb Blade 1, r/R=0.900	Chord Bending, in-lb Blade 1, r/R=0.144	Chord Bending, in-lb Blade 1, r/R=0.570	Torsion, in-lb Blade 1, r/R=0.400
MEAN	-353.5	-692.6	-754.2	-6734.8	-2727.2	-464.8
RMS	566.6	610.4	479.6	2476.7	1497.6	116.8
1/2 P-P	1218.1	1217.9	1095.1	4109.3	3181.8	218.2
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-55.7	-430.5	12	-339.7	10.8	-110
2nd	-326.6	96.1	-435.6	54.8	-313.7	6.7
3rd	-349.9	192.9	-294.5	241.8	-287.1	178
4th	47.8	66.8	130.2	75.8	157.1	104.8
5th	107.7	-367.7	99.9	-458.7	139.7	-338.8
6th	98.1	-26.3	62	-22.3	-29.6	-39.1
7th	-11.9	-6.8	-15.8	-12.1	-58.6	17.3
8th	-63.5	27.7	-145	119.1	-107.9	131.2

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
15/23						
MEAN	231.2	-4272.4	335	-4978.7	-1867.3	-928.6
RMS	380.9	2701.9	354.5	2784	2347.9	1696.2
1/2 P-P	685.9	4348.7	642.8	4691	3969.8	3423.8
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	271.1	11.9	-1754.1	-3335.9	16	195.9
2nd	77.8	56.5	-266.1	-270	-74.2	-85
3rd	-161.6	-374.6	32.4	-163.8	-379.2	143.3
4th	78.7	41.6	-106.5	87	95.9	46.7
5th	142.7	-18.5	-170.9	119.9	24.5	119.4
6th	-45.4	14.6	28.4	19	46.9	-9.9
7th	0.2	2.7	-18.1	25.5	3.8	9
8th	34.1	-86.5	-213.6	-307.3	33.2	-65.9
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
15/23						
MEAN	-1835	-460.6	467.7	-6249.6	-534.9	-73.7
RMS	1586.6	129.2	352.5	2593.5	119.6	10.1
1/2 P-P	3337.1	233.9	664	4343.4	207.8	24
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	1033.2	-921.3	-113.3	129.7	-157.9	147.5
2nd	267.3	-40.7	-32.7	27.9	41.1	55.7
3rd	253.7	263.7	36.6	3.7	169.6	360.3
4th	858.6	-1287	-4.9	5.6	94	43.2
5th	409.2	551.8	-0.8	7.8	-122.4	40
6th	2.1	34.7	3.6	.5	-47.7	13
7th	-20.5	-25.2	1.6	0.2	-0.9	2.3
8th	73.6	127	-7.5	11.3	12.1	-85.3

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	15/24	Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325
MEAN	1671.8	1365.8	838.2	724.5	591.6	196.5					
RMS	472.1	269.3	153.3	295.1	353.7	561.3					
1/2 P-P	894.6	522.3	419	679.7	722.3	1137.1					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-230.6	-101.9	-158.3	-91.4	-31.9	-147.1	-15	-214.5	-5.8	-252.7	-62.6
2nd	-133.2	-44.6	-78.2	-24.3	-46.1	3	-45.5	18.8	-56.6	25	-201
3rd	494.8	-246.3	276.5	-131.6	8.7	-26.8	-186.6	57.2	-261.8	98.9	-555.6
4th	112.9	65.6	65	27.6	13.4	-22.5	-43.1	-62.6	-71.8	-72	-76.3
5th	48.1	-159.9	17.2	-58.1	-37.4	67.8	-86.4	187.4	-91.1	225.3	31.7
6th	62.7	-6.7	23.2	-3.1	-29.3	-3.5	-80.8	-3.5	-95.9	1.4	52.8
7th	-3.1	-4.4	-0.7	-5.1	1.6	-5.5	2.2	-5	0	-5.2	6.3
8th	25.7	-79	-13	-22.2	-73.4	59.3	-111.9	121	-91.6	123.7	150.7
											-102.
RUN/POINT	Flap Bending, in-lb	Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	15/24	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.400	Blade 1, r/R=0.400
MEAN	-284.4	-717	-904.1	-5641	-2648	-474.7					
RMS	707.5	782.9	642.6	4197.7	2098.7	120.4					
1/2 P-P	1455	1570.4	1444.8	6721.6	4376.1	238.9					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-152.3	-458.8	-44.9	-358.2	-2.1	-122.4	-5034	3028.5	-883.1	1043	126.9
2nd	-429.8	45.3	-604.4	-8.9	-464.5	-28.9	393.4	369.2	409.3	-117.4	-37.1
3rd	-474.8	289.1	-404.3	341.8	-402.9	233.4	328.7	74.1	-650.7	-420.2	-34.5
4th	70.1	99.7	185.2	106.8	219.6	126.5	-114.9	24.4	1616.6	-1665.7	10.9
5th	221.9	-420.8	248.9	-518	282.5	-374.5	133.9	204.2	-243	-651	19
6th	124.7	-19.6	59.8	-10.1	-50.5	-37.9	-38	-54.4	-4.4	82.3	4
7th	-6	-2.1	-29.5	-27.6	-102.2	7.9	4.4	22.9	17.9	-13.8	-2.6
8th	-78.4	42.7	-160.2	181	-130.9	198.2	-260.4	-398.3	295.3	382.3	-6.7

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144		Flap Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.174		Chord Bending, in-lb Blade 3, r/R=0.325	
		15/24	1/2 P-P	15/24	1/2 P-P	15/24	1/2 P-P	15/24	1/2 P-P	15/24	1/2 P-P
MEAN	1522.3	-3246.8	1662.9	-3993.8	-966.1	-587.6					
RMS	530.6	4444.3	479.8	4363.9	3681.9	2530.3					
	1123.3	6965.1	940.9	7070.2	6083.9	4850.6					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	233.5	222.3	-2771.5	-5574	-95.3	130.6	5302.7	-3022.7	4500.8	-2487.9	2576.3
2nd	163.8	17.4	-413.3	-392.1	-152.3	-49.1	409.5	454.7	351.6	373.2	385.5
3rd	-281.3	-533.4	52.6	-346.1	-525	269	-323.5	-38	-227.7	20.6	209.2
4th	110.8	59.8	-102.2	105.7	131.4	70.6	109	-21	256.3	-238.7	890.6
5th	176.5	16.2	-176.9	114.4	-26.6	153	-197.7	-179	-101.4	-62	204.5
6th	-67.2	14.1	48.3	33.7	66.8	-4.8	-19.5	-18.7	-17.6	-4.6	-11.2
7th	1.9	-7.3	-21.4	26.9	-2.4	3.9	8.7	30.2	1.9	16	-32
8th	26.6	-119.2	-291.3	-359.9	24	-89.3	-288.4	-399.4	-228	-376.5	-98.7
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400		Flap Bending, in-lb Blade 4, r/R=0.144		Chord Bending, in-lb Blade 4, r/R=0.144		Torsion, in-lb Blade 4, r/R=0.400		Pitch Link, lb Blade 1	
15/24											
MEAN	-1730.8	-473.2	1744.6	-5225.6	-555.7	-60.6					
RMS	2247.8	130	476.8	4304.2	125.5	12					
	4531.8	233.3	951.5	6949.2	221.8	29.8					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	1520.3	-1402.5	-133.2	106.9	-113	-73.5	2714.2	5382.4	-85.8	-145.8	-0.2
2nd	397.4	-37.6	-26.7	37.3	132.9	12.6	-365.1	-404.4	26.6	-21.6	-10.9
3rd	496.6	399.3	33.9	-4.9	294.2	512.8	-81	314.3	4.7	-15.9	-2.3
4th	1048.1	-1848.8	-2.2	20.2	130.8	63.4	64.1	15.2	4.3	15.8	1.5
5th	426.1	698.9	-13.5	14	-170.5	10.1	239.4	-111.5	-16.7	-11.4	1.5
6th	-15.1	73.7	2.4	-2.9	-67.9	6.6	28.9	33.7	-3.4	1	-0.5
7th	-30.8	-35.5	3.4	0.7	-3.9	11.2	31	28.8	-1.5	0.3	-4.1
8th	127.9	145.7	-7.7	15.5	11.7	-111.1	-248.5	-391.8	-11.1	17.4	0.8

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
15/25		RMS	738.8	426.9	217.5	893.4	342.2	1205.3	2260.3	727.3	343.7		
MEAN		3109.2	1258.6	741.6	568.8	824.5	875.3					646	1374.6
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-157	-281.6	-118.1	-186.3	-6.9	-197.9	-12.3	-241.7	-7.3	-280.3	-106.9	-464.	
2nd	-652.5	25.1	-389.5	10.9	-135	22	-24.5	26.5	0.6	31.6	-54.3	44.	
3rd	540.1	-441.9	302.4	-238.9	8.6	-42.1	-207.6	115.1	-288.2	182.9	-628	420.	
4th	101.5	63	59.5	20.3	15.9	-46.1	-37	-88.7	-67.7	-96.3	-68.1	-31.	
5th	38.9	-194.4	15	-72	-37.7	81.1	-80.5	223.7	-82.5	265.9	49.7	-2.	
6th	59.8	-6.1	21.5	-4	-30.6	-2.6	-81.6	-4	-96	2.8	56.2	21.	
7th	-1.7	2.4	1.5	-2.5	5.6	-6.2	4.1	-7.3	0.4	-7.6	4.8	-8.	
8th	11	-91.5	-18.9	-25.5	-65.5	71.1	-95.1	141.5	-73.6	142.8	139.4	-127.	
RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.725		Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Chord Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400	
15/25		RMS	806.4	911.1	1967.3	1853.5		-1047.3	-4114.2	-2438.7	-460		
MEAN		-236.2	-767.3	996.4	1857.7	10714.4		796.4	6986.9	2939.6	187.5		
									10714.4	5733.2	430.5		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-255.4	-469.8	-123.3	-369.1	-26.4	-150.7	-7180.8	6616.1	-1110.4	1743.4	182.8	-48.8	
2nd	-378.1	72.4	-663.8	19.7	-604.2	-3.4	1144.8	502.4	542.3	-107	128.1	57.2	
3rd	-509.6	479.1	-417.9	526.2	-425.9	362.6	443	37.4	-984.6	-414.3	10.6	-84.	
4th	85.9	154.8	213.2	162.8	272	174.3	-247.7	91.6	1788.3	-2740.6	9.4	-46.8.	
5th	213.2	-500.9	246.8	-625.6	308.1	-475.7	179	114.3	-241	-597.1	-21.8	-33.4.	
6th	119.1	-21.2	40.9	11.7	-70.5	-22.4	-16.3	-25.2	-15.8	-5.7	-8.5	24.3.	
7th	-6.7	15.2	-31	-15.6	-114.6	30.6	17.5	17.5	-9.8	-33.8	-16.3	6.8	
8th	-77.5	58.3	-128.9	199.9	-99.1	196.9	-379.9	-379.9	-352.6	392.2	359.4	0.2	7.5

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
15/25						
MEAN	3036.4	-1878.4	3185.6	-2741.3	155.1	-151.4
RMS	810	7359.1	751.3	6426.8	5423.8	3627.1
1/2 P-P	1516.9	11368.7	1384.7	9940	8578.3	6854.1
HARMONIC	COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE
1st	425.2	399.7 -5806.2	-8510.5 -280.8	258.4 6325.4	-6383.8 5410.7	-5304.8 3025.9
2nd	527	47.4 -998	-689.6 -595.9	-27.1 984.7	606.4 794.6	516.8 623.1
3rd	-430.3	-646.6 20.2	-501.5 -602.8	436.2 -329.4	69.2 -203.4	135.1 442.6
4th	131	62.7 60.4	241 133	76.4 125.1	-36.7 245.2	-369.2 714.2
5th	217.5	-23 -128.8	157 -9.6	186 -244.7	-113.5 -130.8	-11.2 242.8
6th	-57.1	9.6 17.8	21 60.5	4 -59.1	-69.7 -42.4	-39.9 -6
7th	8.3	-11.6 -3.6	-26.3 -6.8	-4.1 -24.9	-23.4 -14.1	-29.4 4
8th	2.1	-107.3 -391.8	-333.4 4.3	-75.1 -368.6	-302.8 -314.8	-298.5 -167.3
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
15/25						
MEAN	-1524	-459.2	3221.7	-3866.1	-555.1	-39.2
RMS	3099.9	174.7	752.7	7233.3	175.4	34.7
1/2 P-P	6148.4	361.5	1389.6	11394.9	347.1	98.3
HARMONIC	COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE
1st	1696.7	-2529.1 -185.8	71.8 -331.8	-292.3 6003.9	8152.8 -40.6	-197.8 -6.7
2nd	536	-8.7 97.2	70.2 531.9	15.7 -1033.6	-696.3 -79.5	-67.2 9.4
3rd	852.2	502.8 5.5	47.2 459.3	596.1 -80	449 51.6	30.8 10.5
4th	745.9	-2685.8 0.3	-25.3 150.1	67.7 143	39.9 19.5	-32.9 3.1
5th	489.4	690.6 19.3	27 -193.9	49.5 179.3	-126.5 -39.8	19.5 -7.2
6th	8	84.3 -11.8	22.7 -66.7	10 -7.5	41.5 16.7	-15.4 -4.5
7th	39.1	15.5 -3.9	-7.4 -6.8	16.4 -9.1	-10.6 -12.4	6.4 -2.1
8th	137	146.7 0.3	7.5 -10.9	-106.3 -363.5	-345 -0.7	12.6 6

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325	
22/ 5		RMS	474.7	284.7	98.9	116.2	205.5	243.1	96.7	145.7	-258.4
MEAN		RMS	877.5	522.1					143.4	309.5	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-456.1	-45.2	-273.6	-55.6	4.5	-112.3	9.3	-131.7	36.8	-148.7	197.7
2nd	401.3	-236.5	244.2	-132.7	-30.7	24.8	-37.7	31	-72.2	51.6	-241.4
3rd	-135.9	28.4	-75.4	12.3	34.8	-6.1	40.5	-5.9	58.4	-5.9	107
4th	10.4	-31.5	7.2	-19.8	-9.6	11	-10.3	13.2	-15.7	19.4	-16.7
5th	-12.1	42.3	-0.9	17.1	21	-36.4	24.6	-41.1	25	-49.8	-8.5
6th	-3	-8	0.8	-3.1	5.8	8.5	6.9	10.9	3.7	10.6	-5
7th	0.1	-7.6	2.4	-3.1	3.9	6.3	4	7.9	0.1	9.1	-4.
8th	11	-16.7	3.9	-3.8	-16.1	23.7	-18.1	28.6	-20	28.4	-6.
										34	-24.
RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.725		Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Chord Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570	
22/ 5		RMS	339	274.1	139.6	-165.9	-870.4		-2703.9		-338.2
MEAN		RMS	610.5	572.5	335.3	503.3	985.3	197.7	506	108.4	158.2
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	260.4	-240.1	201.5	-188	57.3	-55	549	-313.5	-71.3	31.5	53.9
2nd	-210.5	202.3	-106.7	181.7	21.2	68.8	-23.1	147.4	61.4	-53.5	-19.1
3rd	46.1	78.5	-4.6	103.1	-5.1	112.4	38.1	-39.7	-10	47.3	7.9
4th	-14	-23.7	-13.7	-46.7	-48.7	-23	21.1	8.4	-48.9	-98.9	-4.4
5th	-53	73.2	-53.3	87.2	-28.1	45.3	37.6	-71.4	-80.7	137.1	-0.8
6th	3.2	-23.8	3.3	-29	4.7	-12.3	2	-1.9	-5.1	-0.4	1.1
7th	6.6	-4.4	15.8	3.5	6	8.8	23.8	8.7	-17.6	-6.5	2.1
8th	-3.6	11.2	-30.4	42.8	-30.2	44.3	-6	-10.4	7.2	0.7	-1.2

RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	-3623.8	-6488.5	-3648.9	-6761.4	-3523.9	-1115.2	
RMS	365.3	420.7	346.4	395.5	320.2	163.6	
1/2 P-P	695.4	876.5	641.9	892.5	693.1	421.9	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	SINE
1st	132	-220.3	342.8	372.6	91.5	133.6	-169.4
2nd	-361.6	225.2	217.7	-158.6	382	-216.6	-244.6
3rd	40.9	120.1	-42.2	-15.9	125.5	-38.9	-26.8
4th	11.9	-28.4	0.5	42.2	13.3	-23.4	-23.4
5th	-27.2	-4	43	-10.5	4.9	-42.4	-17.9
6th	-3	9.3	0.5	-8.6	-0.1	-5.2	-6.8
7th	-4	0.7	21.8	3	1.9	6.5	27.3
8th	0	-29	-7.3	-12.4	7.4	-13.8	-10.7
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Torsion, in-lb	Pitch Link, lb
	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1
MEAN	-1680	-333.2	0	-8035	-384	-86.2	
RMS	193	125	0	463.7	111	9.3	
1/2 P-P	530.9	177.7	0	937.1	167.8	21	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	SINE
1st	84.9	33.5	-57.1	164.4	0	-410.8	-142.2
2nd	5.8	-18.3	-19.6	15.6	0	282.6	-117.8
3rd	39.9	-30.3	-13.7	-1	0	50	33
4th	66.7	-146.1	-4.7	8.5	0	-6.3	-12.5
5th	42.3	-160.4	-0.7	-0.2	0	-65.6	-2.2
6th	7.4	-15.7	1.8	-2.1	0	8	1
7th	-16.9	-4.3	-1	-0.5	0	26.3	9.3
8th	0.4	7.3	-1	3	0	-7	-9.6

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570		
22/ 6		-2297.4	-1086	-842.6	225.3	246.3	-161							
MEAN	RMS	302.3	184.9	116.9	137.5	156.4	289.3							
1/2 P-P		579.1	360.8	278	328	331.3	579.6							
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	
1st	-254.5	-73.2	-153.9	-76.7	4.7	-130.9	8.4	-152.9	23.4	-171.6	115.1	-268.		
2nd	262.1	-189.9	159.8	-106	-34.7	21.2	-41.8	25.5	-70.3	42.4	-219	124.		
3rd	10.7	-42.4	7.5	-24.2	-6.5	8.6	-9.1	11.3	-11.1	21.4	-41	8		
4th	34.9	-9	20.7	-7.4	-16.6	-1.1	-18.8	-1.7	-28.4	2.4	-23.8	15.		
5th	-24.9	-28.9	-7.4	-11.6	20.6	28.2	25.3	33.9	28.9	39.5	0.1	3.		
6th	11.9	-18	6.7	-6.5	-12.1	16.3	-14.3	19.8	-18.6	22.4	11.8	-9..		
7th	2.3	-5.3	4.1	-1.6	2.8	6.9	2.4	8.5	-0.9	9.7	-0.5	-12..		
8th	-6.5	-41.3	-0.4	-6.7	2	66.6	3	77.8	3.5	75.4	21.2	-87..		
RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.725		Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Chord Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400		
22/ 6		-390.8	-513.3	-368.4	-8160.4	-2672.2	-385.9							
MEAN	RMS	325.6	302.7	201.4	369.3	372.7	107.9							
1/2 P-P		661.6	604.7	498.7	782.2	961.7	180.3							
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	
1st	137.9	-266.1	125.1	-195.3	34.3	-53.7	-378	-195.6	-218.8	89.5	64	-133.4		
2nd	-234.5	163.5	-194.9	141.4	-69	50.6	-139.9	177.3	100.7	-59.1	-27.4	14.8		
3rd	-67	136.9	-80.8	162.2	-77.2	147.8	42.4	-25.9	-58.9	9.3	-13.2	11.7		
4th	9.6	1	28.1	-18.3	9.5	8.4	-7	45.9	150	-355.6	-3.9	-4.6		
5th	-45.4	-95.5	-52.2	-118.7	-23.4	-106.5	48.2	42.4	-100	-105.7	0	1.6		
6th	25.2	-36.7	21.4	-32.3	-5.7	-15.5	-9.1	-3.3	7.8	-0.7	0.8	-0.7		
7th	-3.8	-0.4	-1.9	17.6	-7.6	35.5	20.4	-0.2	-20.1	6.9	-1.5	-0.7		
8th	-2.2	31.3	1.7	119.4	8.1	125.5	-82.1	-46.7	78	36.8	-0.3	3.4		

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
22/ 6						
MEAN	-2353.7	-6035.1	-2364.1	-6195.2	-3005.7	-979.2
RMS	239.8	479.3	247.6	671.3	567.1	412.3
1/2 P-P	498	986.3	517.3	1217.9	991.6	815.3
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	171.7	-3.2	228.5	-567.9	-106.3	162.8
2nd	-214.4	170.2	125.9	-176.1	223.2	-166.6
3rd	-38.4	-19.4	-31.2	-32.7	-20.8	37.1
4th	29.2	-3.4	-44.4	34.5	30.4	-2.7
5th	31.3	-30.6	-23	44	22.5	26.4
6th	-15.7	20.1	9.4	-6.4	15.7	-18.6
7th	-6.3	2.8	17.7	5.4	-1.3	5.8
8th	-25.5	-58.6	-85.2	-41.2	-8.7	-38.6
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
22/ 6						
MEAN	-1659.9	-374.7	0	-7555.3	-438.8	-88.4
RMS	373.2	122.8	0	503.6	110.4	9
1/2 P-P	869.9	202.3	0	971.5	187.1	20.8
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	378.7	-56.7	-66.9	156.8	0	-317.4
2nd	70.8	-49.3	-23.5	15.3	0	166.1
3rd	53.3	12.7	11.3	-8.8	0	31.9
4th	180.5	-228	-2.4	1.6	0	0
5th	120.8	90.7	-1.5	-3.5	0	20.4
6th	15.5	-10.4	0.8	-0.8	0	17.5
7th	-16.5	-10.9	1.9	0	0	21.5
8th	35.1	20.2	-0.7	4.7	0	-80.8

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RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.370	Blade 1, r/R=0.444	Blade 1, r/R=0.570	Blade 1, r/R=0.400	Blade 1, r/R=0.570	
MEAN	-1000.3	-281.7	-714.5	365.2	359.3	-51.7					
RMS	306.4	183.9	164.9	193.1	219.8	347.5					
1/2 P-P	568.5	343.1	390.9	458.2	501.9	707.2					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-292.6	-52.9	-183.6	-65.2	-12.2	-147.8	-9.8	-173.1	0.1	-195.9	
2nd	108.7	-124.9	68.3	-70.4	-37.1	19.1	-44.7	23.2	-63.9	34.1	
3rd	182.7	-123.2	104.1	-67.1	-58.5	23.9	-70.1	29.9	-95.8	51.9	
4th	71.7	7.5	39.9	1.2	-26.9	-13.7	-30.5	-15.4	-47.9	-15	
5th	-52.9	-90.8	-21	-35.3	30.1	91.4	36.7	106.4	49.8	126	
6th	31.5	-24.3	13.1	-8.7	-34	20.4	-39.3	24.4	-47.6	15.1	
7th	-2.4	-1.7	3.1	0.5	10.7	5.2	11.7	5.9	9.7	5.1	
8th	5.9	-66.3	-4.6	-11.8	-35.8	103.1	-40.6	121	-31.4	117.7	
RUN/POINT	Flap Bending, in-lb	Flap Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb					
22/7	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.400					
MEAN	-373	-595.6	-567.1	-7267.9	-2610.3	-427.1					
RMS	427.3	452.5	343	1103.7	834	110.8					
1/2 P-P	886.9	921.2	799.2	1996.3	1919	200.4					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	21.9	-321	59.3	-232.1	18.1	-68	-1419.5	502.7	-351.7	298.3	
2nd	-271.9	133.8	-305.4	113	-186.2	43.3	57.2	184.1	170.9	-86	
3rd	-205.3	203.3	-176	229.8	-169	189.5	79.2	-11.4	-174.2	-58.4	
4th	40.8	23.2	92.2	7.1	95.9	37	-48.2	58.4	535.6	-745	
5th	-57.8	-257	-85.3	-317.3	-27.8	-248.7	134.6	126.3	-281	-321.2	
6th	61.3	-48.6	46.9	-43.9	-23.4	-24.5	-28.5	-16.5	25.3	13	
7th	-11.5	3.8	-5.3	11.8	-17	36.1	32.3	-6.7	-27.1	12.6	
8th	-29.4	46.9	-58.7	178.1	-34.3	184	-177.7	-170.1	180.7	-151.8	

RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	-1027	-5257	-1016.8	-5433.6	-2313.3	-769.7
RMS	246.5	1233.2	243.4	1428.6	1202.2	899.6
1/2 P-P	562.9	2071.8	542.4	2388.2	2044	1795.8
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	154.8	-16.4	-391	-1650.6	-42.6	143
2nd	-70.1	100.7	-36.1	-190.2	62.6	-106.1
3rd	-134	-189.4	-20.3	-80.3	-203.3	128.3
4th	64.7	11.2	-84.9	66.9	70.8	8
5th	95.5	-64.3	-110.5	130.8	55.4	87.4
6th	-30.8	26	31	11.1	31.6	-23.5
7th	-2.5	4.8	30.7	9.8	0	1.7
8th	-8	-90.9	-189.2	-143.6	6.3	-70
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Pitch Link, lb
	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1
MEAN	-1617	-416.5	0	-6749.6	-487.5	-86.7
RMS	857.9	123.6	0	1252.2	114.1	10.1
1/2 P-P	1976.4	223.3	0	2123.9	204.4	22.1
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	645.2	-349.4	-84.8	144.3	0	311.9
2nd	160.1	-64.9	-32.7	19	0	-29.1
3rd	140.5	85.2	27.8	-7.3	0	9.6
4th	442.1	-651.9	-0.8	2.1	0	-10.6
5th	355.6	316.3	4.2	-1.2	0	117
6th	31.6	3.8	0.6	-4.3	0	22.1
7th	-32.3	-9.7	-0.4	-0.1	0	36.5
8th	73.4	69.9	-3.4	10	0	-170.9

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
MEAN	-416.1	79.3		-656.5		427.7		412		4.7			
RMS	337.2	196.3		205.6		239.8		275		402.5			
1/2 P-P	663.8	396.1		500		578.9		609.4		809.9			
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-250.5	-63.3	-159.8	-70.9	-14.4	-155.9	-11.6	-182.6	-5	-206.8	3.9	-348.2	
2nd	77.9	-124.3	49.9	-71.3	-39.7	19.7	-47.8	23.9	-65.4	35	-196.9	97	
3rd	262.1	-168	148.5	-91.8	-87	34.6	-103.4	42.6	-140.9	71.2	-306.3	179.5	
4th	89	16.7	48.6	4.8	-33.4	-24.2	-38.3	-27.5	-59.1	-28.9	-48.4	-7.9	
5th	-38.2	-149	-15.4	-56	8.8	150.7	11.2	175.2	24.3	208.2	22.9	6.1	
6th	40.8	-24.4	15.2	-9.6	-48.8	18.7	-56.5	23	-65.9	27.8	40.4	3	
7th	-3.8	0.6	3.7	0.2	14.6	1.8	16.2	1.9	13.9	0.6	-15	-8.5	
8th	21.7	-73.3	-5.7	-12.2	-71.1	114.6	-80.2	134.1	-67.5	132.3	122.8	-121.8	
RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.725		Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Chord Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400	
MEAN	-355		-625		-652.6		-6935.8		-2603.2		-441.8		
RMS	529.8		574.8		441		1679.5		1119.7		113.5		
1/2 P-P	1145.5		1163.2		1001.1		2908.3		2583.4		208		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-31.5	-342.8	23.6	-244.3	3	-72	-2128.5	917	-450.6	411.5	88.6	-115.4	
2nd	-307.2	127.9	-361.6	102	-232.6	34.7	102.8	218.3	222	-113.5	-47.9	20.8	
3rd	-271.6	251.4	-222.1	287.9	-212.6	221.9	120	-7.3	-273.3	-116.2	-34.8	-2.7	
4th	55.1	44.2	119.8	31.4	132.6	52.4	-78.1	55	806.7	-914.9	-3.3	7.6	
5th	1.5	-407.5	-23.4	-492.9	29.6	-364.1	156.8	193.4	-313.3	-516.8	-7.9	-12.8	
6th	83	-52.8	55.9	-50.7	-33.5	-31.9	-39.1	-21.9	28.5	16.1	6.7	-6	
7th	-15.9	6.2	-8.8	3.1	-32.2	27.8	22.6	2.4	-22.8	6.5	-0.8	1	
8th	-52.7	54	-119.1	200.4	-89.9	201.2	-177.6	-259.2	191.8	227.8	-5.9	9.9	

RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
22/ 8	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	-437.6	-4918	-413.3	-5115.4	-2010.4	-2251.6	-645.2	-1344.8
RMS	319	1818.3	314.7	2010.4	205.2	110.9	1688.2	-56.9
1/2 P-P	696.8	3002.4	716.2	3323.4	162	205.2	2859.8	1238.1
								2493.8
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	166.8	49.9	-783.2	-2393.1	-76.5	144	2668.8	-810.3
2nd	-41.8	101.1	-77.4	-243.1	35.3	-112.1	122.9	260.7
3rd	-191.3	-276.9	-11.9	-122.6	-284.9	182.4	-111.6	21
4th	80.4	23.8	-88.8	117.4	91.5	21.7	-12.3	-121.8
5th	147.7	-63.1	-179.5	142	56.2	142.4	-192.3	-160
6th	-40.1	22.3	38.5	19.6	39.9	-20.3	-36.7	-13.3
7th	3.2	6.2	29.8	24	4.6	-0.7	47.5	2.9
8th	8.4	-103.8	-202.4	-228.1	21.8	-78.5	-214	-259.9
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Pitch Link, lb
22/ 8	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1
MEAN	-1620.1	-432.5	0	-6439.1	-1857.1	-117	-506	-82
RMS	1186.2	125.3	0	3141.2	3141.2	213.1	117	10.2
1/2 P-P	2570.4	234.1	0				213.1	26.8
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	833	-513.3	-92.7	137.9	0	0	720.7	-117.8
2nd	187.7	-61	-39.6	22.6	0	0	-65.7	2476.3
3rd	216	128.3	34.5	-2.1	0	-2	-211.3	-10.4
4th	577.7	-933.4	-4.5	11.3	0	-20.1	-4.5	-3.8
5th	448.7	539.9	5.4	3.8	0	0	194.9	-148.4
6th	35.5	33.7	2.5	-4.2	0	0	23.5	5.1
7th	-40.3	-16.8	0.5	-1.1	0	0	36.3	-1.6
8th	76.5	100.7	-6.7	10.9	0	0	-171.7	-0.7

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570		Flap Bending, in-lb Blade 1, r/R=0.570	
22/ 9															
MEAN	218.7	472		-594.7		495		466.4		60.1					
RMS	419.1	243.9		230.7		268.5		310.5		455.8					
1/2 P-P	819.1	494.8		557.1		645.3		644.4		956.7					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-380.9	-9.8	-243.1	-38.5	-29.7	-164	-27.9	-192	-21.5	-221.3	-32.1	-377.			
2nd	-8.9	-90	-3.1	-51.6	-38.2	18.5	-46	22.7	-59.6	31	-191.4	83.			
3rd	323.8	-211.6	182.1	-114.4	-110.5	46.3	-131.6	55.7	-178.6	91.6	-384	213.			
4th	94.3	27.7	51.9	8.8	-35.7	-36.5	-41.8	-41.7	-65.6	-44.8	-58.2	-17.			
5th	-9.5	-167.6	-4.8	-62.4	-21.8	170.4	-23.6	196.9	-16	235.9	28.8	4.			
6th	47.6	-25	18.2	-10	-55.8	16	-64.7	19.7	-76.7	26	46.7	9.			
7th	-6.7	-0.7	-0.2	-0.5	10	2	11.1	2.1	9.4	0.5	-5.1	-8.			
8th	22.7	-76.4	-11.6	-12.9	-89.4	122.6	-101.7	143.7	-84.1	141.7	144.7	-127.			
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800	Flap Bending, in-lb Blade 1, r/R=0.900	Flap Bending, in-lb Blade 1, r/R=0.900	Chord Bending, in-lb Blade 1, r/R=0.144	Chord Bending, in-lb Blade 1, r/R=0.570	Torsion, in-lb Blade 1, r/R=0.400	Torsion, in-lb Blade 1, r/R=0.400							
22/ 9															
MEAN	-339	-664.5		-735.3		-6486		-2567.4		-453.4					
RMS	594.5	652.5		517.1		2183.1		1405.3		114					
1/2 P-P	1316.7	1374.6		1205.2		3711.3		3053.3		214.5					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-81.9	-374.8	-10.3	-277.6	1	-86	-2620.2	1506.1	-501.1	581.1	95.5	-107.9			
2nd	-328.8	110	-422.3	76.5	-296.1	27.5	236.1	208.2	269.2	-133.9	-45.9	22.6			
3rd	-325.8	286.2	-264.3	322.8	-258.7	244.2	172	13.5	-380	-159.7	-40.7	-4.7			
4th	61.6	69.8	143.7	62.3	167.7	77.8	-91.3	65.1	978.1	-1234.1	-2.8	9.5			
5th	84.6	-453.4	75.3	-550.2	117.5	-408.9	141.8	217.4	-265.6	-596.2	-2.1	-19.2			
6th	96.6	-52.6	57.7	-47.2	-42	-35.9	-23.1	-18.4	-3.5	28.4	5.7	-6.2			
7th	-16.9	3.1	-24	-6.3	-53.5	25.9	-10	12.1	13.5	1.7	-0.7	0.2			
8th	-65.9	58.4	-147.4	214.7	-112.7	220.9	-253.9	-320.7	275.7	291.8	-6.1	12.8			

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
22/ 9	MEAN	193.4	-4282.9	254.5	-4849.5	-1774.1
	RMS	355.4	2310.7	348.7	2494.2	2105.3
	1/2 P-P	644.6	3833.7	626.7	4269.3	3623.2
	HARMONIC	COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE
1st	104.6	-64.7	-1298.6 -2932.2	71.6 82.8	-1412.6 2685.6	-1152.9 1562.4
2nd	45.5	64.3	-203.4 -229.8	-49.7 -80	261.4 250.3	198.5 226.9
3rd	-240	-348	-2.8 -180.9	-352.7 229.5	-173.7 17.2	-125.3 36.9
4th	85.5	34.2	-116.6 125.6	99.1 32.8	42.3 -15	139.7 -164.3
5th	164.9	-36.5	-187.6 139.8	24.6 156.8	-181.5 -177.8	-85.6 -71.6
6th	-48.2	23	44.3 13.1	46.5 -15.3	-28 0	-22.7 -21.6
7th	1.7	5.7	-15 25.7	4.1 1.4	0 17.4	-7.6 5.8
8th	20.2	-106.7	-276.7 -289.2	21.1 21.1	-71.9 -283.9	-308.8 -229.4
	RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400
22/ 9	MEAN	-1629.2	-444.1	0	-6016.5	-520.9
	RMS	1462.4	125.5	0	2357.2	118.6
	1/2 P-P	3004	231.9	0	4009.6	218.1
	HARMONIC	COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE
1st	944.4	-757.2	-101 130.2	0 0	1284.5 3017	-111.5 -109
2nd	259.4	-87.7	-37 25.5	0 0	-194.2 -214.5	39.6 6.2
3rd	290.3	170.2	39 -0.4	0 0	-10.1 175.7	-11.9 -34.1
4th	657.3	-1250.5	-7.6 16.7	0 0	8.2 15	-2.1 10.6
5th	419.1	629.5	1.3 8.9	0 0	218.9 -145.8	-12.4 5.3
6th	26.4	58.1	2.5 -2.1	0 0	21.4 39.7	-4.9 2.9
7th	-17.7	-30.8	1.8 -0.8	0 0	-1.4 0.3	-2.7 1.8
8th	108.1	112.7	-6.9 13	0 0	-248 -304.5	-8.4 17

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570		
22/10		RMS	595.4	1091.5	691.9	1308.7	351.5	266.3	309.6	589.7	201.9			
MEAN		1569.5												
RMS		595.4												
1/2 P-P		1091.5												
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	
1st	-552.3	56.5	-357.8	6.2	-58.2	-171.9	-59.4	-202.1	-52.1	-235.2	-94.6	-425		
2nd	-128.7	2.2	-76.6	2.3	-45.6	15.1	-53.4	18.7	-63.4	21.1	-193.2	25.9		
3rd	489.3	-282.9	275.2	-152.3	-162.4	63.7	-191.9	76.1	-260.4	121.7	-544.9	264.9		
4th	125.3	54.4	69.7	20.3	-46	-54.3	-53.3	-62.6	-83.7	-67	-81.9	-36.5		
5th	-21.2	-177.4	-9.4	-66.2	-12.3	184.3	-11.8	212.7	-0.7	250.8	32.7	-1.9		
6th	67.4	-30.4	26.2	-12.7	-76.9	18.3	-88.9	22.4	-103.2	30.8	57	12.6		
7th	0.4	-2.7	-0.1	-3.6	-4.8	-0.8	-6.7	-1.5	-8.1	-0.5	18.4	-9.4		
8th	-3.2	-83.6	-19.4	-13.5	-54.3	137.8	-60.6	160.8	-42	155.7	103.8	-157.3		
RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.725		Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Chord Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400		
22/10		MEAN	-286.2		-709.7		-896.7		-5684.5		-2531.7		-462.7	
RMS		716.2			787.4		654.8		3613.1		2052		115.2	
1/2 P-P		1527			1602		1435.3		5839.9		4359.2		221.2	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	
1st	-173.5	-444.4	-55.7	-345.4	-2	-128.3	-4014.4	3048.5	-650.1	997.8	114.3	-94.1		
2nd	-405.2	47.9	-574.6	10.2	-441.4	-1.7	462.7	215.5	405.4	-147.2	-29.3	25.8		
3rd	-476.8	339.1	-402.8	384.4	-400.5	281.9	332.7	39.4	-651.1	-333.9	-38.9	-0.1		
4th	85.7	86.4	204.8	75.9	232.2	88.9	-102.9	47.7	1424	-1838	6.6	18		
5th	62.8	-473.3	54.2	-579.4	135.9	-433.1	178.7	225.1	-367.9	-680.5	10.9	-22		
6th	132.1	-54.7	78.5	-31	-37.6	-31.6	-22.7	-18.2	-20.4	47.3	4.5	-5.5		
7th	-9.5	7.2	-39.8	-1.2	-99	53.4	10.8	-15.7	-3.5	25.6	-1.8	1.5		
8th	-57.4	68	-88.9	234.9	-61	246	-413.4	-192.9	438.5	169.2	-5.2	15.4		

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
22/10						
MEAN	1542.8	-3257.8	1646.7	-4011.7	-1011.6	-437.5
RMS	499.3	3710.9	508.1	3779.1	3201.1	2306.1
1/2 P-P	920.7	5937.8	951.2	6223.6	5400.2	4623.7
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	24.3	-176.6	-2642.6	-4456.9	262.6	-17.5
2nd	157	-13	-407.9	-251.6	-172	0.2
3rd	-309.5	-522.4	15.2	-349.9	-514.4	300.6
4th	116.7	58.4	-133.8	172.9	131.3	57.2
5th	177.5	-55.4	-165	182.7	34.8	169.4
6th	-72.4	32.1	59.1	8.5	67.2	-18.8
7th	-2.7	-4.9	-30.4	3.6	-4.3	7.6
8th	-15.6	-114.4	-423.7	-160.7	-4.8	-73.1
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
22/10						
MEAN	-1594.9	-455.2	0	-5210.1	-543.1	-64
RMS	2190.1	125.5	0	3758.2	121.9	14.3
1/2 P-P	4574.3	231.5	0	6194.9	214	35.9
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	1212.6	-1333.4	-120.6	113.4	0	2636
2nd	401	-87.3	-18.3	33.2	0	-398.9
3rd	504.7	338.5	35.9	-4.6	0	-42.8
4th	969.8	-1979.9	-3.7	22.8	0	50.6
5th	591.5	712.6	-10.9	11.6	0	233.2
6th	20.2	74.1	0.5	-0.7	0	24.3
7th	-19.9	-37.7	3	-1.2	0	6.5
8th	182.4	59.8	-6.2	16.3	0	-398.2

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
MEAN	-3584.2		-1889.5		-492.2		-3761.6		148.2		-242		
RMS	337.1		197.3		76		159.3		136.5		286.7		
1/2 P-P	634.3		359		174.4		310.1		301.5		588.8		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE		
1st	-42.1	52	-19.5	6.2	13	-55.4	-66.8	71.1	57.4	-130.8	191.4		
2nd	400.4	-205	242.7	-114.1	72	-29.9	23.8	-33.8	-70	41.9	-234.8		
3rd	-123	16.2	-66.1	5	-4.6	-1	0.5	-43.9	51.7	0	90.8		
4th	111.5	-11.9	8	-6.4	1.8	-1.5	5.4	11.6	-13.3	7.4	-16.9		
5th	-47	-7.5	-15.7	-4.4	20.5	4.1	6.7	26.2	60.2	13.1	-7.7		
6th	111.1	-16.1	7.8	-6.7	1.5	4.4	-18.8	-0.3	-9.9	19.3	-1.8		
7th	6.7	-4.6	5	-4.2	1.4	-3.4	-19.1	-2.8	-6.6	0.8	-7.7		
8th	-1	-22.5	2.2	-3.1	3.9	22.7	7.7	-12.9	2.3	41	10.7		
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725		Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Flap Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400		
MEAN	-355.2		-399.7		-157.3		-8670.2		-2613.1		-365		
RMS	317.3		262.4		147.3		449.6		200.1		113.3		
1/2 P-P	617.7		522.2		387.2		896.2		564.1		182.2		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE		
1st	238.3	-213.3	182.5	-170.3	45.8	-51.9	101.8	-514.5	-134	-4.7	62		
2nd	-208.5	168.3	-117	148.2	12.1	53.2	-277.1	140.6	39.9	-41.6	-21.8		
3rd	41.8	92.4	-2.2	117.8	-5	120.6	34.6	-36.2	-16	32.6	-1.5		
4th	-2.3	-4.3	-0.6	-17.2	-32.2	-8.3	-3.2	9.3	33.4	-103.2	10		
5th	-110.2	-38	-122.2	-45.2	-69.3	-43.9	67.6	-5.3	-144	-1.1	-2.7		
6th	22.9	-27.6	21.1	-22.9	17	-2.7	-3.5	24.7	1	-34.2	3.5		
7th	8.9	-3.3	6.7	0.7	-7.3	9	-6.1	-25.7	7	22.5	-0.9		
8th	4.5	17.4	4.2	66.5	0.1	70	-43.9	-17.4	39.9	15.1	-0.5		

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
40/21						
MEAN	-3701.9	-6191.7	-3686.6	-6802.5	-3576.2	-1284.5
RMS	345.3	438.3	387	564.4	464.1	278.5
1/2 P-P	619.1	800.7	694.3	1006.6	842.2	589.6
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	46.4	227.1	509.4	-127.7	-324	23
2nd	-353.7	198.7	244.7	-140.1	372	-187.6
3rd	20.9	114.7	-39.7	-14	121.8	-22
4th	9.4	-8	-13.7	15.2	14.4	-10.1
5th	5.4	-52.1	10	55.6	47.1	-1.7
6th	-12.3	16.8	23.7	-8.9	6.5	-12.7
7th	-0.6	-5	-0.5	-32	-7.5	3.7
8th	-27.4	-24.7	-38.4	-14.4	-17.5	-19.8
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
40/21						
MEAN	-1696.8	-360.6	0	-8028.6	-413.3	-84.8
RMS	243.7	127.8	0	517.9	115.1	9.1
1/2 P-P	587	198.3	0	883.3	185.6	16.8
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	239	89.2	-67.1	165.1	0	-623.6
2nd	-1.5	-10.8	-20.9	18.9	0	309.1
3rd	28.5	-16.6	-2.7	-6.1	0	46.1
4th	35.2	-100.3	3.2	1.5	0	3.4
5th	160.2	-38.7	0.4	-3.2	0	-11.5
6th	21.2	-19.1	0	0.7	0	1.8
7th	-1.8	21.4	0.4	0.1	0	-6.6
8th	23	9.5	0.7	2.5	0	-46.6

RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.144	Flap Bending, in-lb Blade 1, r/R=0.167				Flap Bending, in-lb Blade 1, r/R=0.215				Flap Bending, in-lb Blade 1, r/R=0.280				Flap Bending, in-lb Blade 1, r/R=0.325				
		SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	
MEAN	-2215.9			-1039.4		-142.5		0		255.9		-153.5						
RMS	223.1			141.5		100		0		164.8		285						
1/2 P-P	424.4			255.5		192.7		0		349.1		565.3						
HARMONIC																		
1st	-57.8	-132.3	-33	-110.7	7	-119.4	0	0	0	36.8	-177.7	108.9	-278.2					
2nd	202.8	-163.7	125.7	-92.2	32.4	-21.1	0	0	0	-56.4	40	-199.9	109.6					
3rd	12.9	-51.1	11.4	-29.6	2.7	-7.9	0	0	0	-11.9	23.6	-46.3	90.7					
4th	31.8	-0.8	19.4	-0.7	4	-2.9	0	0	0	-23.3	-0.4	-25.5	9.7					
5th	-34.6	-49	-11.5	-19.9	11.6	19.4	0	0	0	38	67	5.1	2.3					
6th	14.6	-14.1	8.7	-5.9	-0.8	3.6	0	0	0	-15.8	17.8	10.5	-2.4					
7th	-3.7	0.6	2.4	-0.2	10.9	-0.1	0	0	0	12.4	1.1	-18.3	-5.4					
8th	21	-42.4	3.4	-6.7	-26.3	40	0	0	0	-43	73.7	76.7	-69					
RUN/POINT																		
40/22	Flap Bending, in-lb Blade 1, r/R=0.725			Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Flap Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400						
MEAN	-360.6			-508.7		-370.6		-8048.7		-2553.7		-413.6						
RMS	331.8			323.9		206.3		558.4		416.7		113.6						
1/2 P-P	654.4			625.6		470.7		1129.2		1086.8		193.4						
HARMONIC																		
1st	120	-277.6	110.9	-215.1	29.2	-57.3	-721.2	64.6	-266.6	170.9	73.1	-136.1						
2nd	-238.9	150.7	-216.6	129.6	-93.1	46	-93.8	178.2	94.7	-62.5	-34.8	19.4						
3rd	-60.1	133.8	-68.8	163.6	-71.7	146.3	44.5	-26.7	-52.2	8.4	-13.1	-0.2						
4th	1.6	-2.3	16.1	-19.5	8.5	-2.3	-39.4	28.3	278.9	-242.7	0.5	4.8						
5th	-58.5	-140.6	-74	-168.1	-28.9	-135.3	69.9	69.2	-151.3	-165.2	-7.8	-0.7						
6th	25	-30.2	9.7	-27.4	-18	-12.5	-4.9	14.7	2.9	-21.8	1.6	-3.4						
7th	-1.4	-0.5	12.6	-2.4	4.9	6.3	-17.9	-18.3	21.9	16.7	1.3	0.2						
8th	-22.3	25.9	-71.1	112.2	-61.7	115.9	-48	-133	51.5	126.9	-1.4	3.9						

RUN/POINT		Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
40/22		Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.174	Blade 3, r/R=0.325	
MEAN	-2325.5		-5550.9		-2303.4		-6193.6		-2984.1		-1047.6
RMS	298.5		741.9		327		946.4		788.6		554.6
1/2 P-P	556.8		1404.6		598.9		1590.9		1308.8		1033.5
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	241.4	240.3	7.9	-1005.4	-328	217.3	1301.3	39.5	1086.4	59.2	729.5
2nd	-146.6	153.6	68.2	-185.2	153.7	-146.8	-57.9	192.4	-37.6	147.2	38.1
3rd	-59	-27.9	-31.5	-32	-26	54.9	-35	41.4	-24.7	36.3	25.8
4th	31.4	4.7	-33.7	25.5	36	-0.4	4.3	-11.5	30	-30.2	133.6
5th	60	-49.7	-56.2	73.4	37.6	54.4	-74.9	-60.3	-34.6	-27.9	107
6th	-18.4	9.6	30.2	1.7	16.4	-9.4	-19.5	-6.6	-11.9	-3.8	24.3
7th	2.5	5.8	-15.6	-8	3.8	-1.5	-9.7	-9.4	-8.1	-10.1	-0.6
8th	-2.8	-68	-53.7	-119.3	8.2	-54.7	-65.1	-128.6	-51	-116.6	-63.4
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
40/22		Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1	Blade 1	
MEAN	-1612		-407.5		0		-7465.9		-471.1		-87.8
RMS	466		130		0		697.3		116.1		11.3
1/2 P-P	1038.8		218.7		0		1239.4		194.5		21.6
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	504.3	-155.1	-79.6	160.7	0	0	-103.4	933.7	-136	-83.3	13.5
2nd	67.2	-25.5	-27.7	21.5	0	0	113.7	-158.1	28.7	-16.9	1.8
3rd	51.2	11.3	14	-0.6	0	0	30.4	49	4.6	-14.2	0.4
4th	164.2	-178.5	3.2	6.7	0	0	-15.1	1	2.6	4.6	0
5th	194	179.3	6.4	-2.3	0	0	56.8	-65.5	2.7	6.8	0
6th	36.3	6.3	1.6	-1.8	0	0	12.4	10.2	-1.3	3	-0.1
7th	2.6	2.6	-1	-0.5	0	0	-12.6	-20	-0.2	0.8	0
8th	27.4	52.8	-1.9	5.6	0	0	-54.9	-129.4	-0.5	7.9	-0.3

RUN/POINT	Flap Bending, in-lb 40/23	Blade 1, r/R=0.144	Flap Bending, in-lb Blade 1, r/R=0.167	Flap Bending, in-lb Blade 1, r/R=0.215	Flap Bending, in-lb Blade 1, r/R=0.280	Flap Bending, in-lb Blade 1, r/R=0.325	Flap Bending, in-lb Blade 1, r/R=0.570
MEAN	-889.2		-217.5	194	0	367.8	-37
RMS	266.3		163.7	121.3	0	226.9	347.9
1/2 P-P	522.4		320.9	289.6	0	504.9	741
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-132	-176.6	-83.6	-139.7	-144.1	0	12.1
2nd	103.6	-93.1	65.7	-51.5	8.5	0	-56.4
3rd	173.3	-137.3	99.8	-75.4	7.4	-16.5	0
4th	59.2	27.1	33.2	11.8	4.4	-9.1	0
5th	-29	-118.5	-10.4	-46.8	0.6	45.8	0
6th	25.7	-10.3	10.9	-5.3	-10.7	0.1	0
7th	-10.9	4	-0.5	2.7	12.9	2	0
8th	14.5	-60.2	-1.5	-13.6	-30.4	51.3	0
RUN/POINT	Flap Bending, in-lb 40/23	Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800	Flap Bending, in-lb Blade 1, r/R=0.900	Chord Bending, in-lb Blade 1, r/R=0.144	Chord Bending, in-lb Blade 1, r/R=0.570	Torsion, in-lb Blade 1, r/R=0.400
MEAN	-320		-572.8	-557.2	-7297.4	-2505.7	-446.3
RMS	446.7		477.8	349.1	1408	805.8	111.2
1/2 P-P	961.6		1002.8	807.7	2423.2	1883.2	197.3
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-11	-335.6	30	-253.7	14	-64.4	-1729.8
2nd	-290.2	119.5	-342.4	88.2	-215.9	26.4	69
3rd	-186.3	217	-149.4	257.7	-158.1	199.7	86.8
4th	32.8	32.3	80.6	24.1	105.8	43.5	-74.6
5th	-7.6	-308.4	-32.8	-366.9	15.5	-266.4	116.6
6th	55.8	-24.2	30.3	-28.4	-40.1	-29.4	-17
7th	-9.8	3.9	11.4	1.5	1.1	12.6	0.7
8th	-33.5	32.2	-74.1	150.4	-46.4	162.4	-94.2

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144		Flap Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.174		Chord Bending, in-lb Blade 3, r/R=0.325	
		MEAN	RMS	MEAN	RMS	MEAN	RMS	MEAN	RMS	MEAN	RMS
40/23	-983.2	-4815.7	-931.2	-5461	-2313.5	-814.6					
	326.9	1577	325.9	1739	1453.4	1008.7					
1/2 P-P	718.7	2595.5	724.8	2940.1	2450.8	1856.6					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	SINE
1st	277.9	185.4	-768.9	-2054.1	-220.8	263.7	2291.7	-782.5	1927.7	-620.1	-549
2nd	-57.1	71.8	-56.3	-196	61.5	-69.5	96.1	195.7	87.8	156.2	28
3rd	-163.1	-193.1	-19.3	-92.3	-188.6	154.8	-76.3	23.1	-52.6	31.6	60.9
4th	53	29.9	-48.5	56.5	62.9	27.4	25.7	-19.5	67.2	-76.4	-344.9
5th	121.5	-47.4	-145.1	94.5	38.8	116.7	-139.2	-135.4	-64.9	-62.7	168.2
6th	-29.9	9.2	25.7	8.8	31.2	-6.7	-32.8	-18.8	-20.1	-11.2	24.8
7th	3.7	9.7	2.3	36.7	10.8	-3.2	19.2	20.7	12.8	14.1	16.4
8th	6.9	-85.1	-118.5	-210	26.4	-55.9	-116.7	-235.9	-91.8	-216.2	-10.8
										-49	-123.4
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400		Flap Bending, in-lb Blade 4, r/R=0.144		Chord Bending, in-lb Blade 4, r/R=0.144		Torsion, in-lb Blade 4, r/R=0.400		Pitch Link, lb Blade 1	
40/23	-1541.3	-438.5	0	0	-6766.8	-512	-85.3				
	858.7	126.1	0	0	1526.4	114.7	9.9				
1/2 P-P	1862.2	216.6	0	0	2566.4	199.6	19.6				
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	SINE
1st	742.5	-488.1	-87	146.1	0	0	709.2	2001.2	-122.7	-92.4	11.3
2nd	144.7	-50.9	-36.4	18.1	0	0	-37.2	-167	38	-8.7	3.1
3rd	146.8	72.4	25.6	5.7	0	0	12	93.3	14.6	-22.3	-2.4
4th	275.9	-485.6	-8.8	14.2	0	0	-19.1	-16.9	-6.7	12.2	0.6
5th	330.7	430.8	8.1	5.1	0	0	163.2	-98.2	-6.2	9.3	0
6th	43.4	24.3	4.4	-2.3	0	0	26.3	21.5	-4	1.7	0
7th	-20	-22.3	1.2	-2.8	0	0	19.2	1	-2.1	-0.4	0
8th	37.9	87.4	-5	6.8	0	0	-87.2	-219.4	-4.1	8.5	-0.2

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325	
40/24	40/24	MEAN	-299.8	149.1	345.1	0	0	421	421	17.5	
RMS	244.3	143.2	110.7	0	0	0	0	231.1	231.1	374.5	
1/2 P-P	482.8	275.7	275.4	0	0	0	0	530.8	530.8	769.4	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-94.5	-89.4	-63.2	-84.8	-2.5	-127.5	0	0	13.6	-219	-0.7
2nd	23.5	-97.1	18.1	-54.4	-8.5	-7.9	0	0	-50.5	35	-37
3rd	229.6	-141	130.3	-76.6	7.5	-18.3	0	0	-121.8	53.3	86.
4th	46.9	24.6	27	8.7	5	-12.5	0	0	-31.9	-272	142.
5th	-25.7	-103.5	9.6	-38.9	0.6	44.8	0	0	-28.4	-37.2	-8.
6th	28.1	-13.2	10.5	-6.8	-13.8	-0.1	0	0	-45.3	13.2	0.
7th	-8.8	0	-0.3	0.1	11.1	1.3	0	0	16.9	2.6	2.
8th	17.2	-45.1	-2.2	-9.7	-32.3	41	0	0	-46.2	80	-10.
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Chord Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400	
40/24	40/24	MEAN	-312.7	-607.9	-641.1	-6872.3	-6872.3	-2479.5	-2479.5	-463.3	
RMS	465.4	487.8	993.7	363.9	363.9	1943.8	1943.8	949.9	949.9	112.6	
1/2 P-P	967.7	993.7	839	839	3195.4	3195.4	2206	2206	215.9		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-51.5	-387.4	9.6	-293.2	14.2	-71.1	-2410.2	1241	-479.4	541.6	91
2nd	-277.4	135.9	-367.7	100.6	-258.2	31.5	159.6	217.9	196.4	-107.6	-46
3rd	-228.4	195.9	-182.9	236	-200.4	171.6	104.8	-1.1	-218.2	-97.6	-26.7
4th	33.8	46	92.6	41.7	135.3	67.9	-69.3	44.2	514.4	-769.9	-7.6
5th	-2.3	-284	-19.9	-340	36.5	-246.1	125.9	132	-264.3	-367.5	-6.9
6th	63	-25.6	35.1	-24.9	-46.2	-32.2	-16.9	-6.2	10.2	10	4
7th	-4.7	4.5	12.4	2.5	-0.7	15.2	-29.7	-12	35.2	14.2	-0.2
8th	-35.3	29.6	-82.1	119.6	-54	127.8	-96.3	127.8	-96.3	106.7	-1.1

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
40/24						
MEAN	-390.7	-4400.9	-321.4	-5052.4	-1937.5	-669.7
RMS	325.9	2117.7	320.5	2288.2	1915.2	1289.2
1/2 P-P	762.2	3383.3	718.9	3770.9	3154.1	2372.7
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	185.4	227	-1093.7	-235.4	173.6	2993
2nd	20.8	72.2	-148	-236.9	-71.1	229.3
3rd	-170.1	-258.7	-14.1	-115.8	-257.6	159.6
4th	41.7	32.3	-45.4	80.6	52.3	-68
5th	109.6	-44.6	-124	104.7	36	24.2
6th	-35.6	5.9	37	6.8	32.3	80.1
7th	3.1	5.7	-24.9	15.6	-0.3	85.9
8th	7.2	-67.1	-116	-198.4	12.3	-10.9
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
40/24						
MEAN	-1492.9	-455.7	0	-6384.5	-533.1	-83.6
RMS	1061.3	128.1	0	2101.7	118.4	8.6
1/2 P-P	2282.5	222	0	3405.5	205.3	18.5
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	931.3	-658.6	-97.9	141	0	1016.7
2nd	174.1	-54.2	-35.4	23.1	0	-126.7
3rd	193.4	107.1	28.4	11.8	0	2.5
4th	170.7	-723.8	-12.8	15.6	0	1
5th	351.1	384.3	6.1	7.2	0	144.8
6th	44.9	41.9	2.4	-1.6	0	24.7
7th	-4.4	-5.7	1.7	-2.2	0	-12.2
8th	45.6	83	-4.1	5.3	0	-96.3

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
40/25													
MEAN	476.4	630.6	543.5	0	0	490.3	99						
RMS	429.4	256	139.1	0	0	286.6	418.9						
1/2 P-P	773.9	451.6	319.9	0	0	613.8	850.5						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-454.1	-81.5	-286.2	-80.2	-94.8	-132.3	0	0	-20.7	-229.5	-59.5	-388.8	
2nd	-44.8	-35.8	-22.8	-19.4	-22.8	3.7	0	0	-47.8	29.5	-161.4	47.7	
3rd	287.5	-175.2	161.9	-94.8	4.5	-19.7	0	0	-164.4	71.7	-352.8	180.5	
4th	67.6	49.5	37.3	20.9	4.3	-17.8	0	0	-50.1	-49.7	-48.3	-26.3	
5th	-12.2	-165.3	-4.7	-59.8	-10.5	73.9	0	0	-10.9	240.4	33.3	-1.4	
6th	42.1	-13.1	17.5	-5.4	-16.6	0.6	0	0	-59.6	13.9	27.2	10.5	
7th	-5.3	2.4	1.1	0.8	9	0.6	0	0	11.1	1.6	-15.3	-11.5	
8th	5.3	-43.5	-10.5	-10.7	-34.9	38.1	0	0	-40	76.5	74.8	-69.8	
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800	Flap Bending, in-lb Blade 1, r/R=0.900	Flap Bending, in-lb Blade 1, r/R=0.144	Chord Bending, in-lb Blade 1, r/R=0.570	Chord Bending, in-lb Blade 1, r/R=0.570	Torsion, in-lb Blade 1, r/R=0.400						
40/25													
MEAN	-276.9	-631.1	-736.2	-6300.4	-2440.8	-473.7							
RMS	574.9	625.5	477	2407.9	1244.4	112.2							
1/2 P-P	1235.6	1271.5	1073.7	3874.4	2684	207							
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-124.2	-407.4	-28.2	-306.2	12.9	-80.1	-2520.7	2213.2	-440.9	766.2	99.1	-104.9	
2nd	-329.1	86.7	-465.8	44.5	-350.4	12.9	342.3	146.9	274.7	-133.2	-45.6	15.4	
3rd	-282.1	239.9	-213.7	286.7	-241.8	198.6	170	7.3	-340.1	-164.9	-33.4	-12	
4th	53.4	64.8	132.7	61.7	186.6	76.8	-88.6	50	756.1	-989.9	-6.6	7.8	
5th	52.2	-450.3	34.7	-539.6	88.4	-381.7	128.8	200.7	-253.7	-589.9	-4.2	-19.6	
6th	83.1	-26.8	49.8	-16.7	-51	-23	-27.9	-3.5	13.4	8.9	6.3	-3.7	
7th	-4.8	8.9	-4.4	-2.8	-30.4	11.8	12.5	-17.6	-5.5	20.6	-2.5	0.9	
8th	-42.4	31.1	-75.7	116.3	-39.4	120.9	-161.9	-252.9	177.7	243.7	-3.8	7	

RUN/POINT		Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
		Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.174	Blade 3, r/R=0.325	
40/25	MEAN	408.6	-3849.5	482.8	-4496	-1446.5	-1446.5	-507.4	-507.4		
	RMS	353	2537.2	346.7	2665.9	2248.2	2248.2	1551.5	1551.5		
	1/2 P-P	637.9	4073.5	587.5	4356.8	3681.6	3681.6	2903	2903		
	HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st		156.1	-114.4	-1937.7	-2963.7	137.3	159.5	3086	-2077.1	2630.6	-1710.7
2nd		90.6	9.1	-305.3	-179	-87.7	-17.2	342.2	204.5	288.9	170.7
3rd		-212.5	-335.8	3.9	-183.1	-325.9	204.8	-176.5	19	-127.6	38.3
4th		64.6	46.9	-84	66.2	74.7	51.3	21.6	-4.7	92.4	-121.1
5th		171	-41.3	-187.4	148.9	30.4	162.8	-177.3	-173.9	-83.3	-66.8
6th		-40.6	10.8	31.8	16.1	34.8	-5.9	-16.3	-22.3	-10.5	-8.7
7th		5.6	4.3	12.9	4.1	3.2	-3.2	20.4	-0.3	12.9	-2.3
8th		2.3	-74.5	-188.8	-236.2	11.9	-44	-196.3	-259.8	-156.3	-247.8
	RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 4, r/R=0.400	Pitch Link, lb	Pitch Link, lb
40/25	MEAN	-1435.2	-466.4	0	0	-5850.5	-5850.5	-547.2	-547.2	-77.8	-77.8
	RMS	1360.3	126.2	0	0	2522.6	2522.6	119.4	119.4	4.6	4.6
	1/2 P-P	2767.1	218.8	0	0	4126.7	4126.7	213.4	213.4	10.2	10.2
	HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st		898.9	-991.6	-104.5	132.2	0	0	1914	2956.9	-111.4	-114.6
2nd		245.3	-72.8	-32.4	21.8	0	0	-304.1	-150.7	36.4	-8.8
3rd		276.5	177.3	32.9	9	0	0	-14.1	172.3	17.4	-25.1
4th		464.3	-954.6	-13.8	16.3	0	0	2.3	-2	-7	13.1
5th		408.8	637.7	5.2	10	0	0	216.3	-134.5	-13	6.3
6th		27.9	59.8	3.6	-0.7	0	0	-2.5	27.5	-3.7	1.6
7th		-29.4	-8.6	2.5	-2.1	0	0	17.4	-29.1	-1.9	-2.5
8th		75.4	90.8	-4.6	7.6	0	0	-159.4	-257.6	-4.6	8.5

RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.144	Flap Bending, in-lb Blade 1, r/R=0.167	Flap Bending, in-lb Blade 1, r/R=0.215	Flap Bending, in-lb Blade 1, r/R=0.280	Flap Bending, in-lb Blade 1, r/R=0.325	Flap Bending, in-lb Blade 1, r/R=0.570
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-158.4	-91.1	-108.7	-82.8	-17.1	-137.7
2nd	-94.2	-11.3	-52.4	-5.4	-32.2	9.3
3rd	331.4	-214.1	187.5	-116	7	-22.2
4th	71	53.8	39.8	22.2	4.9	-19.1
5th	-3.9	-160.3	-2.2	-57.8	-15.8	71.9
6th	42.7	-13.5	16.4	-7.5	-19.6	-2.9
7th	-5.4	5.5	0.6	2.7	8.3	0.7
8th	3.3	-54.6	-10.5	-14.2	-34.1	44.6
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800	Flap Bending, in-lb Blade 1, r/R=0.900	Chord Bending, in-lb Blade 1, r/R=0.144	Chord Bending, in-lb Blade 1, r/R=0.570	Torsion, in-lb Blade 1, r/R=0.400
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-247.5	-639		-799.5	-5770.6	-2395.7
2nd	606	664.5	518.3	518.3	3394.6	-479
3rd	1253.6	1341.3	1136.1	1136.1	5344	1451.6
4th					3159.9	110.7
5th						209.8
6th						
7th						
8th						

RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	993.4	-3328.6	1085.7	-3986.6	-989.6	-327		
RMS	408	3563.9	378.2	3594.9	3023.6	1995.6		
1/2 P-P	899.1	5643.4	814.6	5768.5	4892.7	3656.5		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	155.4	200.8	-2289.2	-4440.1	-144.5	137.5	4400.8	-2450.6
2nd	138	-9.7	-377.7	-263.1	-132.7	0.1	367	292.5
3rd	-244.6	-374.4	-9.3	-253.3	-360.2	233.3	-241.5	23.1
4th	74.4	53.9	-52	92.4	85.6	54.5	47.4	-34.1
5th	176	-27.2	-157.8	123.4	17.5	170.4	-162.6	-179
6th	-50.8	7.8	44	26.2	45.2	-2.6	-35.9	-36.7
7th	5.9	2.1	-17.3	7	5.5	-4	-3.7	9.7
8th	-2.6	-76.3	-225.8	-223.7	4.3	-44.7	-236.9	-238.5
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Pitch Link, lb
	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1
MEAN	-1366.8	-472.2	0	-5349.4	-555.5	-555.5	-72.8	
RMS	1649.4	123.5	0	3561.7	119.8	4.4		
1/2 P-P	3440.8	218.1	0	5656	213.8	10.4		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	1269.5	-1154	-111.3	122.7	0	0	2278.1	4447.4
2nd	263.5	-65.2	-29.4	22.4	0	0	-337.2	-245.5
3rd	345.2	198.9	28.5	6.6	0	0	-2.2	239.9
4th	530.9	-1144.8	-11.3	20.5	0	0	13.5	-40.9
5th	410.9	672.3	-0.1	11.1	0	0	205.4	-88.9
6th	47.9	77.9	3.2	-0.8	0	0	10	48.4
7th	-19	-10	3	-2.8	0	0	3.4	-34
8th	98.4	79.6	-3.7	8	0	0	-202.4	-4.9

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
MEAN	1811.6	1460.9	884.2	0	0	614.9	235						
RMS	396.9	219	125.8	0	0	317.4	504.3						
1/2 P-P	743.1	388.7	321.1	0	0	670.8	1017.6						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-55.7	-41.6	-48.8	-48.5	-130.6	0	0	3.2	-252.4	-87.6	-433.8		
2nd	-154.6	10.5	-88.9	6.4	-44.8	12.8	0	0	-41.3	24.9	-164.8	22.7	
3rd	418.3	-260.7	236.2	-140.8	11.5	-27.9	0	0	-220.7	99.8	-467.7	229.1	
4th	80.8	59.9	45.8	23.2	8.7	-25.3	0	0	-53.9	-66.8	-72.9	-33.3	
5th	15.4	-162.3	6.3	-60.2	-20.3	67.8	0	0	-47.3	225.4	42.9	-7.7	
6th	46.8	-9.9	16.9	-4.9	-24.5	-3.4	0	0	-73.4	3.9	36	20.8	
7th	-2.1	7.3	1.5	2.6	6.3	-2	0	0	5.6	-6.5	-6.9	-3.2	
8th	-3.2	-60.1	-13.8	-18	-31.4	44.7	0	0	-29.1	94.9	70.2	-94.2	
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800	Flap Bending, in-lb Blade 1, r/R=0.900	Flap Bending, in-lb Blade 1, r/R=0.144	Chord Bending, in-lb Blade 1, r/R=0.570	Chord Bending, in-lb Blade 1, r/R=0.570	Chord Bending, in-lb Blade 1, r/R=0.400						
MEAN	-204.1	-649.3	-882.8	-5033.2	-2356.8	-481.9							
RMS	654.1	716.3	578.1	4556	1874.6	117.9							
1/2 P-P	1311.8	1480.9	1239.4	7059.8	3850.1	222.3							
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-207.1	-462.2	-73.6	-346.6	2.3	-90.2	-5362.4	3485	-872.9	1162.5	121.8	-90.2	
2nd	-403.4	55.5	-622.8	1.6	-505.6	-7.8	479.8	296.9	367	-132.7	-29.5	26.2	
3rd	-384	277.8	-297.2	323	-340.6	195.1	295.4	62.4	-578.2	-260.1	-38.1	-1.4	
4th	52.4	91.2	151.9	88.9	231.8	98.5	-106.7	64.9	1103.3	-1624	16	21.7	
5th	118.6	-409	120.8	494.3	175.3	-341.9	133.5	145.7	-256.7	-517.9	11	-26	
6th	97.6	-17.9	52	5.1	-69	-8.7	-27.1	-8.9	3.1	44.4	4.6	2.1	
7th	1.8	12	-12.3	-11.1	-56.1	4.4	17.4	-18.3	4.5	19.2	-3.4	2.6	
8th	-44.1	39	-54	141.3	-11	146.9	-250.6	-259.8	272.5	256.4	-6.3	9.4	

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
MEAN	1747.7	-2624.6	1861	-3283.6	-356.2	-83.3
RMS	514.2	4724.3	460.8	4681.3	3945.6	2557.5
1/2 P-P	1124.8	7240.8	985.2	7402.1	6274.2	4595.7
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	115.3	349.6	-3046.9	-5891.6	-239	78.8
2nd	195.8	-25.7	-461	-350.7	-185.5	19.5
3rd	-294.3	-460.7	20	-323.8	-447.3	282.3
4th	91.3	58.1	-45.9	127.1	97.6	61.7
5th	179	-5.8	-161.5	117.6	-7.5	164.6
6th	-53.1	16	30.3	9.4	51.1	-8.1
7th	8.7	0.5	24.4	17.1	2	-8.6
8th	-15.9	-87.8	-272.2	-228.4	2	-53.3
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
MEAN	-1279.8	-475.9	0	-4673.5	-563.7	-64.6
RMS	2057.8	128	0	4726	126.2	9.2
1/2 P-P	4076.4	225.7	0	7366.9	221.6	20.5
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	1611.2	-1512.7	-129.3	112.1	0	3029.3
2nd	333.8	-43	-21.1	30.3	0	-413.4
3rd	489.1	252.9	31.6	1.2	0	-46.9
4th	531.1	-1517.7	-0.5	26	0	18.1
5th	406	611	-6.9	12.6	0	195.8
6th	25	63.4	1.5	-4.1	0	23.5
7th	-46	-21.3	2.5	-3.4	0	32.1
8th	118.2	84.6	-4.4	10.4	0	-233.9

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
40/28	MEAN	3305.2		2390.1		1264.6		0		755.8		395.6	
	RMS	565.4		320.3		125.7		0		334.2		561.5	
	1/2 P-P	1122.5		636.7		306.3		0		720.5		1155.5	
	HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	
	1st	-106.2	123.8	-85.5	63.6	10.5	-97.6	0	0	-2.3	-263.4	-141.2	
	2nd	-442.6	32.3	-261.3	15.5	-97.9	20.4	0	0	-14.8	27.2	-92.6	
	3rd	516.1	-331.7	291.8	-180.8	13.5	-35.4	0	0	-267.4	123.2	-548.7	
	4th	83	58.2	47.8	17.9	13.7	-32.6	0	0	-49.7	-77.2	-92.5	
	5th	2.2	-149.2	2.4	-56.8	-9.2	60.3	0	0	-20.8	203.1	40.6	
	6th	47.5	-11.9	16	-6.8	-27.1	-5	0	0	-77.5	6	49.1	
	7th	-4.1	8.4	1.7	2.5	9.7	-4.3	0	0	11	-8.6	-1.5	
	8th	-22.7	-54.8	-19	-15.3	-16	46.1	0	0	0.6	92	38.6	
	RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725		Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Chord Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400	
40/28	MEAN	-128.6		-674.9		-1029		-3369.3		-2222.9		-441.8	
	RMS	689.4		756.2		653.1		6763.2		2561.8		153.1	
	1/2 P-P	1424.5		1662.1		1466.2		10229.4		5044.2		275.2	
	HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	
	1st	-310.3	-517.2	-144.3	-405.6	-15.4	-131.6	-7567.9	5731	-1131.4	1739	147.5	
	2nd	-412	37.8	-727.2	-12.9	-656.2	-8.1	921.1	353.1	502.8	-104.1	24.3	
	3rd	-445.8	237	-332.9	264.4	-388.5	140.1	407.5	96.9	-780.5	-396.6	-28.2	
	4th	37	80	144.7	52.8	260.4	50	-138	134.2	1281.7	-2385.5	46.6	
	5th	67.5	-362	62.6	-442.3	145.2	-318.7	137.9	82.3	-313	-419.9	22.6	
	6th	87.8	-29.4	39.2	18.2	-90.5	20	-12.6	-22.6	-6.7	93.4	-4.4	
	7th	9.3	9.3	-11.3	-27.3	-55.2	3	38.2	9.2	2.3	9.6	-7.2	
	8th	-36	48	-4.7	131.5	40.7	119.8	-316.8	-171.4	340.8	161.2	-1.6	

RUN/POINT		Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	40/28	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.174	Blade 3, r/R=0.325	Blade 3, r/R=0.325	
MEAN		3209.7	-1156.7	3405.9	-1886.6	895.2	386.1						
RMS		647.4	6695.9	605.3	6498.9	5494.5	3515.6						
1/2 P-P		1313.7	10151.6	1285.1	9954.4	8498.6	6231.7						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-95	285	-4872.5	-8035.1	-164.4	-136.5	7199.3	-5600.1	6137.8	-4663.5	3427.3	-3104.6	
2nd	489.6	-78.5	-864.9	-406.9	-463.1	29.2	884.9	389.4	723.3	339.1	540.8	127	
3rd	-356.1	-554.7	42.7	-427.3	-552.1	347.3	-385	-9.4	-262.3	48.8	300.1	309.2	
4th	104.4	53.3	-83.3	255	101	49.5	77.2	-45.1	163.6	-303.1	486.4	-1525.6	
5th	200.3	-9.3	-94.4	153.7	20.4	165.7	-160.7	-87.6	-68.5	-6.7	266.1	383.4	
6th	-56.9	26.4	16.7	-26.6	55	-7	-36.9	-22.2	-29.5	1.2	23.1	82.2	
7th	9.3	7.3	29.3	13.8	0.8	-8.1	5.7	15	-0.9	4.3	-30.5	-29.3	
8th	-36.5	-80.2	-328.7	-152.2	-11.3	-41	-328.8	-158.4	-283.9	-170.6	-143.3	-109.2	
RUN/POINT		Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	40/28	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 4, r/R=0.400	Blade 1	Blade 1	
MEAN		-1112.6	-443.3	0	0	-3191.1	-3191.1	-548	-548	-363			
RMS		2794.4	160.8	0	0	6865.8	6865.8	156.4	156.4	29.3			
1/2 P-P		5417.3	278.7	0	0	10600.5	10600.5	268.1	268.1	47.7			
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	1949.3	-2363	-158.2	113.1	0	0	5018.5	8236.7	-89.4	-176.6	-37.9	-13.3	
2nd	459.2	-19.6	31.2	76.5	0	0	-856.8	-441.4	-24.5	-60.7	-3.8	-8.7	
3rd	676.5	425.8	36.3	-33.3	0	0	-102.9	361.9	-19	-26.8	-0.5	-0.8	
4th	484.6	-2137	29.9	52.5	0	0	46.7	-19.7	23.4	51.4	-0.2	-0.8	
5th	474.7	548.3	-21.5	16.3	0	0	107.7	-162.6	-17.1	-21	-0.1	0	
6th	45.7	103.6	-2.8	-7.4	0	0	14.5	12	-1.3	7.6	0.1	0	
7th	-48.7	-41	4.1	-1.8	0	0	-3.9	12.3	-4.7	-6.1	0	0	
8th	130.4	43.7	-2.9	10.2	0	0	-298.9	-169.3	-5.2	12.9	0	0	

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
16/13	Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.370	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.400	Blade 1, r/R=0.400	
MEAN	-3567.1	-1875	-478.5	165.3	171	-195.5					
RMS	292.6	167.9	62.7	104.8	130.6	266.9					
1/2 P-P	593.2	329.2	128.4	238	288.7	567					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-199.9	100	-114.3	33.5	-20.5	-44.8	37.1	-109.3	58.1	-135.2	
2nd	303.8	-134.6	185.3	-72.7	55.9	-16.7	-24.5	18.3	-55	176.6	
3rd	-85.5	-20	-43.7	-13.6	-0.7	-3.8	29.2	4.8	40.6	32.3	
4th	9.2	-12.1	6.5	-6.6	2.2	-1.9	-5.1	3	-10.2	10.1	
5th	-21.8	9.8	-6.1	3.9	13.7	-1.5	29.7	-5.6	32.1	6.4	
6th	4.8	-5.7	3.1	-2.6	0.5	1	-4.5	5.6	-6.8	-16.5	
7th	-1.7	4.7	2.2	1.7	7.3	-1.4	7.6	-2.1	4.5	13.1	
8th	17.8	-28.7	4.3	-6.3	-16.6	22.6	-34.8	44.6	-32.8	-16.5	
RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
16/13	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.400	Blade 1, r/R=0.400	Blade 1, r/R=0.400	Blade 1, r/R=0.400	
MEAN	-333.8	-390.8	-170.4	-8546.9	-2848.7	-368.7					
RMS	286.3	244	129.9	478	175.7	114.1					
1/2 P-P	528.8	485.8	351.1	979.5	478	191.6					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	217	-220.1	174.9	-176.5	48.8	-52.6	294.7	-542.1	-83.4	9.2	
2nd	-195.8	135.2	-124.6	130.9	-6.5	58.9	-198.6	93.5	31.2	-32.6	
3rd	21.1	74.6	-13.8	82.4	-15.1	82.8	19	-20.6	-18.3	40.2	
4th	-14.7	-5.5	-13.3	-16.6	-35.7	-13	6.2	19.8	12.4	-7.3	
5th	-60.3	1.3	-64.8	6.4	-27.2	-3.4	44.7	-19.1	-95	128.2	
6th	14.9	-12.3	4.1	-13.5	-4.1	-0.4	-0.5	-8	3.5	6.3	
7th	3.1	3.3	9.6	1.9	-0.6	-1.2	-10.6	24.8	8.3	-21.1	
8th	-12.8	13.7	-53.2	68.1	-53.4	70.9	16	47.2	-10.4	45.7	

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb	
	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.174	Blade 3, r/R=0.325	
MEAN	-3742.2		-6238.8		-3728.1		-6788		-3546.2		-1289.5	
RMS	240		318.1		289.4		420.7		344		196.4	
1/2 P-P	438.4		639.1		536.4		830.9		678.8		459.3	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	
1st	19.3	107.8	359.6	-100.4	-231.9	-48.4	231.2	459.4	183.6	386.7	198.1	
2nd	-277.4	123.2	167.2	-88.8	290	-134.9	-209.8	115.9	-161	83	-61.5	
3rd	-26.5	77	-22.7	-14.9	76.5	15.9	-12.4	29.7	-1	24.3	23.8	
4th	11.4	-10.3	3.8	22.3	14.3	-8.1	10.9	1.3	12.6	-12.7	6	
5th	-3.4	-22.2	23	24.8	20.1	-14.4	-33.4	23.4	-17.5	10.4	55.5	
6th	-8.5	7.4	3.2	-12.8	11.4	-5.9	-5.6	2	-0.4	-0.7	-0.2	
7th	3	3.8	-5.2	33.8	0.3	-5.2	8.7	38.5	0.1	27.7	-6.6	
8th	25.2	-47	9.9	-56.2	29	-17.5	20.8	-62	18	-50.2	13.2	
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
16/13	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
MEAN	-1902.8		-366		-3464.5		-8059.8		-414.2		-94	
RMS	188.2		132.4		260.1		434.5		117.2		8	
1/2 P-P	482.4		215.5		526.6		865.6		194.1		18.4	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	
1st	180.9	26.6	-76.7	167.7	86.3	46.2	-518.4	-183.9	-144	-77.2	5.1	
2nd	-12.7	-12.2	-17.8	24.2	-307.9	126.9	198.8	-72.6	13.6	-20.4	-1.5	
3rd	29	-15.5	8.4	0.3	26.2	-101.3	30.4	29.8	-0.5	-7.2	-1.6	
4th	-1.3	-99.6	6.5	2.6	10.6	-9.4	10.9	1.5	6.2	-1.3	0.5	
5th	89.2	-52.8	2.6	-3.1	23.3	24.5	-32.1	-40.7	3.6	3.2	-0.9	
6th	9.2	-12.2	0.2	-1.1	-8.2	4.2	18.7	-6.6	-0.3	1.6	-0.4	
7th	-3.7	-22.2	-0.6	0.2	-3.4	-0.6	-0.9	23.8	-0.3	1.4	0.1	
8th	-14.4	26	-2.7	2.7	18.2	-36.5	21.6	-46.4	-2.6	4.1	-0.2	

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
16/14	1/2 P-P	RMS	MEAN	RMS	MEAN	RMS	MEAN	RMS	MEAN	RMS	MEAN	RMS	MEAN
		-2214.5	-1038.2		-136.5		308.2		280.7		-99.4		
		342.8	207.7		96.8		121.4		144.9		261.6		
		602.3	363.7		190.5		293.9		322.4		528.5		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-442.5	-37.4	-265.5	-54.8	-85.8	-93.6	-144.5	24.8	-171.4	91.2	-277.3		
2nd	144.5	-96.3	90.1	-52.8	21.2	-9.7	-27	18.6	-49	28.9	-177.8	76.9	
3rd	17.8	-50.8	13.2	-29.4	2.7	-8.4	-6.2	9.1	-10.6	18.8	-52.2	75.1	
4th	24.1	7.5	14.5	3.8	3.3	-2.2	-8.7	-6.1	-16	-6	-22	0.1	
5th	-8	-43.7	-1.2	-16.9	2.8	16.4	4.9	48.2	5.9	58.6	1.2	1.8	
6th	12.1	-5.2	6.6	-3.5	0.3	-1.3	-7.8	2	-11.2	3.6	1.8	2.9	
7th	-4	-0.7	1.1	-0.8	8.2	-0.6	11.1	0.9	7.9	2	-11.7	-4.7	
8th	17.8	-21	3	-3.5	-19.5	19.5	-37.6	35.9	-35.8	35.1	58.3	-31.1	
RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.725		Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Chord Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400	
16/14	1/2 P-P	RMS	MEAN	RMS	MEAN	RMS	MEAN	RMS	MEAN	RMS	MEAN	RMS	MEAN
		-326.6	-485		-373.7		-7718.8		-2745.4		-413.2		
		300.2	288.9		175.3		185.5		284.1		111.1		
		607	591.7		398.2		509.3		726.4		186		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	100	-266.6	100.8	-204.1	35.3	-54.5	74.3	124.6	-106.6	193	78.9	-130.1	
2nd	-229.7	109	-220.5	94.8	-108.1	40.8	-26	85.4	80.8	-56.4	-31.9	15.7	
3rd	-67.6	105.7	-74.1	123.8	-76.4	103.3	41.4	-17.8	-53.8	16.1	-13.1	-1.8	
4th	4	9.4	20.4	7.3	16.5	16.4	-13.5	-4.6	132.6	-125.9	-1.5	6.3	
5th	1.7	-126.2	-1.7	-155.4	16.8	-115.5	37.2	71	-67.1	-168.5	-3.9	-4	
6th	26.4	-12.1	22.7	-16.3	-0.4	-13.4	1.5	-7.4	-0.7	10	2	-1.6	
7th	0.9	-2	13	-4.3	8.1	-3.7	-22.8	10.6	21.3	-4.7	0.3	-0.6	
8th	-15.5	10.3	-57.3	54.8	-51.6	60.2	-21.2	-87.9	25.2	83.7	-1.3	1.3	

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
16/14	-2378.7	-5429.7	-2353.6	-5987.3	-2813.7	-1002.4
MEAN	192.5	422.2	152.5	444.8	378.1	345.9
RMS	356.1	781.2	307.1	883.5	759.9	797.4
1/2 P-P						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	171.1	-116.7	-257.2	-494.4	25.6	109.8
2nd	-105.9	83.5	-14.5	-96	120.7	-96.2
3rd	-66.6	-43.5	-19.2	-27.8	-36.9	57.3
4th	23.8	7.9	-22.1	10.2	29.1	12.4
5th	54.8	-16	-64	42.5	12.5	48.2
6th	-12.4	3.4	18.3	-6.6	13.2	2.6
7th	-0.2	7.1	-25.1	15.4	4.2	0.8
8th	20.4	-35.6	-27.7	-80.7	13.6	-20.2
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
16/14	-1786.5	-406.2	-2125.4	-7310.1	-466.1	-95.7
MEAN	355.1	128.7	250.6	183.5	113.4	9.4
RMS	830.7	208.9	467.6	481.5	182.9	20.5
1/2 P-P						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	263.6	-236	-85.3	156.2	-56.7	287.2
2nd	58.5	-21.2	-26.6	19.4	-150.6	85.5
3rd	47.9	7.4	13.9	4	66.2	12.6
4th	115.9	-213.2	-5.7	7.4	26.5	8.4
5th	94.5	186.2	4.3	0.5	-37	23.8
6th	19.5	8.7	2.4	-0.3	-13.1	1.6
7th	5.9	-18.9	0.1	-0.5	-0.4	-2.9
8th	9.5	31.6	-2.5	1.7	7.1	-39.2

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570		
MEAN	-901.3	-221.8	198.5	453.8	393.2	18								
RMS	226.9	148	114.2	160.4	188.1	308.7								
1/2 P-P	424	259.1	228.8	368.9	415.9	627								
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	
1st	-67.6	-229.4	-42.5	-168.6	9.4	-150.9	25	-180.6	33.4	-204.7	38.3	-332.1		
2nd	68.4	-74.6	44.1	-40.3	2.2	-6.6	-33.8	16.2	-52	25.5	-176.4	56.8		
3rd	131.7	-83.9	75.8	-46.3	5.6	-13.3	-46.8	12.9	-70.2	27.8	-175.5	96.5		
4th	30.9	30.2	18.3	13.8	4.2	-6	-12.5	-20.3	-20.1	-23.9	-25.3	-13.5		
5th	14.2	-82.8	6.6	-32.1	-11.2	29.1	-29	88.2	-32.9	108.4	11.7	6.7		
6th	22.4	1.5	10.4	-0.1	-4.8	-3.2	-21.5	-3.9	-26.7	-3.1	8.5	9.8		
7th	-5.4	3.4	0.6	2	9.6	1	13.1	1.8	10.3	2.2	-14.6	-7.6		
8th	12.8	-28.4	1.1	-9.5	-17.7	17.9	-32.9	39.7	-30	40.5	48.2	-36		
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Chord Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400				
MEAN	-282.1	-544.7	-557.2	-6773.4	-2674.8	-451								
RMS	378.6	390.1	273.7	1504.2	600	109.6								
1/2 P-P	772.5	814.2	654.5	2484.2	1399.1	190.2								
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	
1st	-3.7	-319.7	31.8	-230.6	13.2	-48.5	-1807.6	1068.2	-410.2	445.4	91.1	-114.7		
2nd	-272.3	71.3	-327.6	36.6	-217.1	7.1	94.3	182.8	143.9	-60.2	-41	10.9		
3rd	-159.1	157.2	-133.1	188.7	-145.3	128.8	88.1	-4.7	-137.7	-46.1	-18	-10.3		
4th	13.2	27.7	48.4	34.9	76.2	52.4	-24.5	-1.9	255.5	-289.3	-8	9.5		
5th	80.3	-209.5	83.5	-257.3	86.6	-172.9	30.6	126.9	-27.6	-319.6	-2.3	-9.9		
6th	43.9	-3.9	29.1	-11.9	-21.1	-28.2	-15.9	-25.4	17.8	29.9	3.4	-0.9		
7th	-2.3	2.2	11	-1.7	3.4	-6.3	-8.2	13.7	15.2	-4.2	0.3	0		
8th	-17.3	7.4	-53.2	60.8	-39.9	75	-18.5	-158.3	28.6	149.4	-2.2	1.6		

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
16/15						
MEAN	-1051.5	-4509.7	-995.7	-5044.4	-1953.1	-661.5
RMS	371	1829.8	343	1875	1567.9	1059
1/2 P-P	734.5	2922.1	707.3	3077.2	2563.3	1828.3
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	378	272.2	-1134.9	-2300.8	-313.8	287.6
2nd	-22.2	43.9	-118.6	-178.4	34.7	-65.5
3rd	-110	-165.2	-10	-81.2	-160.6	94.1
4th	25.6	33.2	-42.8	18.1	29.8	37.7
5th	105.2	4.1	-110.4	39	-14.3	95.6
6th	-21.7	-0.7	20.8	10.2	20.3	2
7th	1.9	11.6	-5.1	35.3	5.4	-1.7
8th	22.6	-43.3	-39.3	-155	25.4	-21.6
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
16/15						
MEAN	-1653.7	-443.1	-818.6	-6413.3	-513.7	-93.7
RMS	826.6	125.4	257.3	1642.4	1109	15
1/2 P-P	1582.5	208.7	514.1	2667.1	189.2	31
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	786.2	-605.7	-97.8	139.7	-258.4	-119.3
2nd	123.3	-16.8	-35.4	14.8	-66.4	49.1
3rd	114.2	63.7	20.7	10.2	110.1	138.4
4th	195.7	-366.9	-11.3	11	33.2	32.9
5th	67.7	383.8	2.9	6	-88.3	9.5
6th	19.6	27	2.3	-0.5	-24.4	-2.3
7th	-14.6	-36.8	0.2	-0.9	-2.8	-7.1
8th	12.6	58.2	-3.7	2.6	17.5	-40.3

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570								
MEAN	-211	204.7	374.1	532.2	455.6	82	RMS	254.1	147.1	80.6	161.1	198.7	339.8	1/2 P-P	495.3	269.6	190.7	373.8	452.5	696.9
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE							
1st	-244.4	55.1	-154.8	3.7	-36.1	-85	4.4	-163.3	17	-199.9	-2.5	-357								
2nd	16.3	-51.5	12.4	-27.5	-9.2	-1.6	-32.6	16.7	-46.9	24.4	-156.6	48.8								
3rd	203.1	-89.4	115.1	-49.3	7.7	-16.9	-72.2	10.8	-106.8	26.9	-251	94.3								
4th	43.8	35.8	25.7	16.2	7.2	-9.6	-13.3	-29.2	-23.7	-34.5	-29.6	-17.8								
5th	-6.7	-92.7	-1.8	-34.7	-4.2	37.8	-7.2	106.3	-5.9	129	12.3	4.9								
6th	20.8	0	8.9	-1.2	-6.9	-2.9	-23.6	-3.1	-28.6	-2.8	10.1	7.2								
7th	-6.6	-6.8	0.6	-3.5	9.4	1.7	13.9	7.2	11.7	8.7	-13.7	-13.8								
8th	12.3	-26.3	-1.7	-8.7	-21.9	17.9	-37.2	38.1	-33.1	38.7	52.2	-34.1								
RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.725		Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Chord Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400								
MEAN	-255	-564.9	-640.9	-6190.1	-2625.1	-461.9	RMS	420.8	441.8	325	1620	778.8	109.2	1/2 P-P	845.6	915.3	760.8	2744.6	1783.1	199.3
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE							
1st	-64.3	-352.3	1	-253.3	14.8	-58.3	-1970.4	1101.5	-408.4	501.1	95.8	-107.5								
2nd	-280.7	57.3	-379.8	14.7	-277.5	0.9	160.6	142.2	170.7	-71.4	-4.3	11.3								
3rd	-225.3	158.4	-180.3	192.8	-194.9	116.7	115.1	5.1	-194	-109.6	-21.8	-16.2								
4th	25.3	43.5	73.3	57.1	120.2	74.7	-28.3	8	423.3	-507.4	-6.1	12.3								
5th	33.3	-244.3	24.1	-300.9	50.2	-195.3	78.4	166.7	-133	-429.4	-2.6	-11.2								
6th	49.3	-1.6	31.9	-5.5	-32.8	-28.4	-12.9	-26.8	6.2	35.1	4	-1.4								
7th	-3.7	-2.1	11.9	1.8	3.4	5.1	-15.8	12.2	17.1	1	-0.8	-0.4								
8th	-21.1	8.9	-53.9	58.8	-33.2	73.4	-87.8	-165.2	100.4	159.7	-2.1	1.8								

RUN/POINT		Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
		Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.174	Blade 3, r/R=0.325		
MEAN	-345.7		-3964.2		-280.9		-4473.6		-1455.2		-494.7		
RMS	235.6		1974		219.7		2000		1677.2		1155.1		
1/2 P-P	552.7		3206.2		497.3		3335.3		2808.9		2082.5		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	88.3	94.9	-1153.3	-2513.5	-104.7	1.5	2563.2	-1125.2	2159.7	-925	1298.5	-760.2	
2nd	24.9	21.5	-168.9	-152.8	-14.2	-45.1	154.4	183.4	127.3	150	134.7	53.1	
3rd	-125.6	-240.6	3.4	-109.4	-241	97.4	-95	-0.3	-69	18.8	61.9	101.6	
4th	39.2	39.6	-54.8	25.4	40.5	45.4	-1.1	8.7	58.4	-63	311.8	-392.8	
5th	110.8	-20.8	-126.4	77.6	14.6	100.5	-100.7	-152.6	-47.7	-69	103.8	291.6	
6th	-23.3	0.9	25.3	7.1	19	2.6	-13.6	-6.2	-7.2	-2.9	9.5	16.4	
7th	-2.2	12.7	-19.1	23.4	6.2	6.3	5.5	43.3	-2.4	30.7	-8.2	-9.5	
8th	21.3	-41.8	-101.4	-155	14.4	-18.1	-99.4	-175.2	-76.2	-160.7	-27.4	-97.2	
RUN/POINT		Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
16/16	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1
MEAN	-1584.9		-453.9		-132		-5877.8		-528		-88.4		
RMS	985.1		123.2		203.7		1784.5		112.2		10.3		
1/2 P-P	2087.2		213.6		398.7		2984		192.5		22		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	810.1	-654.9	-101	131.8	31.1	44.6	1018.2	2280.2	-106.7	-108.1	9.7	-2	
2nd	143.5	-25.8	-35.8	15.5	-13.9	25.5	-154.3	-124.1	36.1	-4.1	-8.8	1.1	
3rd	156.5	130.4	25.6	154	120.3	219.5	-8	115.4	17.1	-14.6	-1.7	-2.9	
4th	395.4	-592.8	-11.7	11	42.7	41	2.5	4.8	-6.2	8.8	-1.3	0.9	
5th	216.5	461.2	2.8	5.9	-95.9	36.2	138.9	-80.2	-6.4	4.4	-0.9	-2.4	
6th	16.4	17	3.1	-1.5	-22.9	-4.1	15.1	11	-3.8	0.6	0.4	0	
7th	-8.3	-35.6	0.6	-0.4	1.3	-9	6.8	31	-1.7	-0.5	-2	-0.5	
8th	35.5	60	-3.3	2.8	9.1	-33.3	-81.9	-162.6	-4	3.4	0.6	-0.3	

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144	Flap Bending, in-lb Blade 1, r/R=0.167	Flap Bending, in-lb Blade 1, r/R=0.215	Flap Bending, in-lb Blade 1, r/R=0.280	Flap Bending, in-lb Blade 1, r/R=0.325	Flap Bending, in-lb Blade 1, r/R=0.570
MEAN	460.2	620.9	543.7	605.8	512.3	146.7	
RMS	261.8	156.1	102.4	182.7	223.6	375.4	
1/2 P-P	509.8	300	225.7	401	493.6	731.1	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-218.7	-58.6	-141.5	-64.5	-27.7	-120.9	4
2nd	-32.9	-55.6	-16.8	-30.4	-19.8	-2.3	-34
3rd	235.2	-97.7	131.5	-53	4.9	-17.5	-89.5
4th	40.2	45.6	22.7	19.9	5.8	-12.6	13.4
5th	6.5	-102.5	1.6	-38	-13.7	42.4	-15.7
6th	30.7	-0.3	13.3	-0.6	-9.7	-3.4	-33.4
7th	-8.6	-5	-1.8	-3.3	7.3	0.8	11.3
8th	12.2	-17.7	-3	-7.5	-24.8	9	-41.5
RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800	Flap Bending, in-lb Blade 1, r/R=0.900	Chord Bending, in-lb Blade 1, r/R=0.144	Chord Bending, in-lb Blade 1, r/R=0.570	Torsion, in-lb Blade 1, r/R=0.400
MEAN	-226.8	-585.5	-723.5	-5630.7	-2580.8	-473.8	
RMS	469.2	499	380.5	2450.4	992.5	110.4	
1/2 P-P	943.9	1046.4	845.9	3870.6	2160.5	201.5	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-112.9	-385.6	-22.9	-271.2	11.8	-58.9	-2852.4
2nd	-309.5	40.5	-451.6	-16.2	-347.3	-18.9	242
3rd	-256.3	165.7	-196.5	204.5	-224.4	112.6	156.1
4th	33.4	52.9	93.2	72.9	153.1	95.1	-38.1
5th	79.8	-266.2	77	-328.2	94.4	-205.3	54
6th	64.3	-1.5	41.3	-6	-39.2	-37.9	-13.2
7th	-2.7	-0.9	8	3.4	-4.1	4.3	-4.6
8th	-24.5	2.8	-67	34.1	-47.3	51.8	-16.4

RUN/POINT		Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
16/17		Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN		339.2	-3423.1	411	-3942.7	-974.1	-309.1		
RMS		299.8	2800.3	270.6	2770	2320.5	1554.9		
1/2 P-P		649.6	4390.9	580.9	4356.9	3677.2	2799.9		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	192.6	129.2	-1902.5	-3440	-121.6	118.7	3362	-1948.5	2838
2nd	74.2	18.4	-267.4	-231.8	-72.4	-45.6	214.7	291.2	171.8
3rd	-139	-283.4	21.8	-156.8	-282.3	106.6	-154.3	-5.9	-114.7
4th	39.8	47.7	-55.7	35.8	43.6	54	9.6	84.5	-83.9
5th	114	-3.6	-126.9	79.6	-0.1	108.9	-75.4	-170.6	-32
6th	-34.5	-1.9	19.8	12.3	27.7	4.3	-2.6	-12.4	1
7th	0.6	10.7	-28.1	-21.1	6.5	3.8	-7.3	9.9	-10
8th	19.2	-33.4	-58.8	-153.5	14.6	-19.5	-60.3	-161.8	-42.7
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Blade 4, r/R=0.400	Blade 4, r/R=0.400	Blade 4, r/R=0.400	Blade 4, r/R=0.400	Pitch Link, lb
16/17		Blade 3, r/R=0.450	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 4, r/R=0.400	Blade 4, r/R=0.400	Blade 4, r/R=0.400	Blade 1
MEAN	-1515.8	-466.6	545.7	-5359.9		-544.8			-83.3
RMS	1270.3	123.1	240.9	2655.7		114.9			10.2
1/2 P-P	2559.1	216.2	457.7	4197.6		201			22.8
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	1014.9	-968.5	-108.1	125.1	-89.8	0.6	1828.4	3249.4	-101.4
2nd	168.1	-2.2	-33.3	18.6	39.1	23.7	-237	-199	35.7
3rd	188.8	181.1	26.6	17.6	132.6	260.3	-22.1	162.4	19.1
4th	506.7	-755.9	-11.7	14.4	45.1	49.9	11.3	-5	-14.2
5th	173.4	517.4	-0.8	6.9	-110.8	20.8	149.6	-52.8	-8
6th	14.4	32.8	2.6	-0.7	-31.8	-1.1	2	19.5	-2.7
7th	-7.3	-21.3	1.1	-0.3	-1.4	-9.4	5.2	-9.4	-1.8
8th	30.2	57.3	-3.1	2.8	16.8	-30.5	-38.2	-163.1	-4.4

		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
RUN/POINT		RMS	16/18	RMS	1/2 P-P	RMS	1/2 P-P	RMS	1/2 P-P	RMS	1/2 P-P	RMS	1/2 P-P
MEAN		1845.2		1482.3		896.4		763.7		638		288.6	
RMS		379.2		221.3		96.3		196.6		248.2		434	
1/2 P-P		700.5		411.5		223		433.8		527.9		868.8	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-307	80.6	-201.6	24.6	-43.9	-95.2	-7	-190.7	3.8	-235.1	-74.6	-428.2	
2nd	-169.5	-4.2	-98.8	-1.3	-48.1	7.8	-36.1	16.3	-39.8	20.2	-143	11.2	
3rd	340.4	-144.6	191.5	-78.1	12.2	-23.6	-120.3	20.1	-175.2	44.6	-387.8	117.9	
4th	55.5	55.5	31.9	23.1	9.4	-17.8	-18.9	-48	-33.1	-55.4	-48.2	-31.5	
5th	22.5	-108.9	7.8	-42.3	-20.1	40	-47.2	118.3	-53.1	144.3	23	1.5	
6th	35.2	4.5	14	0.9	-12	-6.6	-38.8	-10.1	-47.1	-9.5	17.7	16.9	
7th	-7.4	-3.1	-2	-3.3	4.8	-2.1	7.7	1.3	5.4	3.9	-8.3	-5.5	
8th	10.2	-24.2	-3.3	-11.1	-22.4	9.4	-37.9	26.8	-33.4	29.9	50.1	-22	
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725		Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Flap Bending, in-lb Blade 1, r/R=0.900		Chord Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400
MEAN		-153		-607.9		-873.7		-4228.7		-2461		-478.1	
RMS		547.3		597.1		480.6		3929.5		1485		114.4	
1/2 P-P		1120		1271.7		1014		6058.5		2944.8		208.9	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-207.6	-426.5	-65.2	-293.5	11.3	-69.4	-4466.1	3235	-744.9	1100.9	123.3	-89.8	
2nd	-364.3	-12	-597.4	-84.2	-493.9	-45.7	506.7	247.2	304.8	-77.7	-32	22.4	
3rd	-337	178.2	-246.9	207.2	-289.2	78.9	235.2	106.8	-421.5	-252.3	-20.9	-8	
4th	36.3	60.9	107.7	88.4	194.2	104.9	-46.3	38.8	824.2	-1160.1	8.7	22.2	
5th	118.7	-263.7	122.4	-332.9	134	-193	73.3	139.2	-102.9	-443.2	9.4	-12.1	
6th	69.7	4.7	42.4	1.7	-56.7	-43.8	-10.4	9.9	7.4	24.8	1.9	-3.9	
7th	-3.6	0.7	1.9	-6.2	-12	-12.2	17.6	-18.8	2.1	35.1	-2.1	-1.4	
8th	-26.2	5.8	-52.6	41.2	-22.7	60.1	-98.4	-163.5	111.5	156	-2.9	3	

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
16/18						
MEAN	1723.8	-2093.1	1830.6	-2585.5	240.3	164.3
RMS	360.7	4245.5	341.3	4147.1	3502.3	2273.9
1/2 P-P	726	6473.7	702	6465	5462.2	4047.5
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	27.4	99.3	-3023.9	-5141.2	-8	-50.9
2nd	195.3	-19.9	-487.2	-286.8	-202.4	-1.7
3rd	-192	-389.5	72.3	-256.1	-378.7	151.5
4th	60.6	54	-57.3	47.3	58.3	62
5th	107.3	1.7	-116.5	83	-24	113.9
6th	-38.2	-2	16.5	2	30.8	6
7th	2.5	9	-12.4	-8.4	7	4.7
8th	17.8	-43.3	-102.4	-154.5	12.8	-16.4
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
16/18						
MEAN	-1333.3	-474.5	1909.9	-4063.2	-558.7	-64.6
RMS	1801.3	124.6	330.6	4081.6	121.9	11.7
1/2 P-P	3455.4	217.4	676.6	6280.8	208.4	24.4
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	1391.3	-1487.3	-126.8	110.3	65.8	8.6
2nd	289.2	-0.6	-21.5	28.8	166.2	-19.8
3rd	333	254.3	26.4	10.5	183.5	359.9
4th	667.5	-1142.2	-3.1	23.4	62.2	54.4
5th	194.4	513.7	-7.2	6.4	-114.6	-2.4
6th	-2.8	34.7	0.2	-2.5	-35.9	-5.2
7th	-28.7	-33.2	2.2	0.9	-0.4	-8.9
8th	51	59	-3.2	3.7	16.8	-27.2

RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.144	Flap Bending, in-lb Blade 1, r/R=0.167	Flap Bending, in-lb Blade 1, r/R=0.215	Flap Bending, in-lb Blade 1, r/R=0.280	Flap Bending, in-lb Blade 1, r/R=0.325	Flap Bending, in-lb Blade 1, r/R=0.570
MEAN	3339.3	2408	1271.2	933.7	771.1	445.4
RMS	626.4	373.2	137.3	240.6	304.2	519.2
1/2 P-P	1098.8	655	306	516.9	633.2	1009.3
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-570.5	126.7	-368.6	58.7	-103.3	-95.6
2nd	-385	14.8	-226.9	5.9	-.88	13.5
3rd	453.7	-227.5	255.4	16.7	-32.4	-157.5
4th	67.2	66.3	39.3	23.6	16.2	-28.8
5th	79.1	-135	30	-53.4	-43.7	-17
6th	36.1	7.8	13.7	1.7	-12.8	-11.3
7th	-15.2	-0.6	-4.1	-4.9	10.6	-42.2
8th	1.7	-39.5	-10	-16.5	-27.8	18.5
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800	Flap Bending, in-lb Blade 1, r/R=0.900	Chord Bending, in-lb Blade 1, r/R=0.144	Chord Bending, in-lb Blade 1, r/R=0.570	Torsion, in-lb Blade 1, r/R=0.400
MEAN	-68.4	-619.9	-1000	-2572.8	-2334.5	-440.3
RMS	669	738.5	624.7	5835.2	2232.5	140.8
1/2 P-P	1387.6	1606.5	1306.6	8786.5	4205	251.5
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-325.2	-478.2	-142.5	-336.9	-9.6	-98.1
2nd	-399	-44.9	-728.5	-132.6	-649.3	-73.7
3rd	-428	200.9	-300.3	221.4	-347.4	58.4
4th	19	78	104.9	116.8	230	129.5
5th	259.3	-302.9	282.1	-390.1	262	-221.7
6th	74.7	6.8	36.5	11.1	-88.9	-49
7th	-8.7	0.9	-0.1	-22.8	-14.3	-30.7
8th	-37.5	11.4	-51.8	67.1	-1.1	93.7

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
16/19						
MEAN	3198.3	-581	3352.6	-1279.4	1419.7	579.2
RMS	537.4	5943.3	549.3	5678.4	4813.1	3130.3
1/2 P-P	1013.1	9009.3	974	8608.5	7390.2	5550.7
HARMONIC	COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE
1st	-82.4	-142.3 -4666.1	-6909.2 269.8	-136.9 5899.8	-5344.7 5063.9	-4459.2 2811
2nd	381.8	-26.6 -844.3	-316.2 -402.5	9.6 871.6	282.8 711.6	244.1 524.4
3rd	-276.4	-538.5 133.3	-396.5 -501.4	241.4 -347.7	-62.9 -243.4	6 217.7
4th	69.5	60.1 -44.3	124.7 78.5	74.2 50	1 180	-222.1 693.3
5th	142.9	15.3 -109.6	94.6 -62.8	141.8 -119.2	-148.1 -68.5	-48.5 65.9
6th	-44.5	-4.1 5.1	3.5 41.6	11.5 -15.3	-17 -14.2	1.2 -10.1
7th	4.1	11.7 -13.5	-0.5 15.7	1.9 -9	30.7 -11.7	18 -23.7
8th	11.3	-74.8 -205.7	-221.9 11.8	-37.2 -193	-238.3 -154.9	-230.1 -65.6
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
16/19						
MEAN	-1175.9	-446.6	3366.2	-2503.5	-543.8	-30.5
RMS	2533.6	145.7	519.5	5909.6	141.4	27
1/2 P-P	4826.3	253	963.9	9052.7	238.4	52
HARMONIC	COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE
1st	1590	-2286 -144.3	109.1 126.8	194.9 4745.9	6797.9 -86.6	-161.8 -21.8
2nd	439.2	-27.9 22.8	68.9 366.2	-30.2 -844	-344.5 -12	-52.2 -2.7
3rd	531.5	447.1 34.9	-18.3 264.7	489.8 -178	345.8 -14.6	-14.2 1.9
4th	817.6	-1819.6 19.2	45 80.2	67.2 32.2	27.3 22.4	44.2 5.3
5th	184.2	581.2 -15.9	9.7 -150.6	-40.2 136.3	-48.9 -12.5	-14.5 1
6th	7.6	75.9 0.2	-5.3 -45.6	-13.1 3	23.5 -0.8	3.9 -0.4
7th	-26	-52.9 5	3.1 -3.1	-11.1 19.8	48.7 0.9	-3.4 -3.5
8th	88.8	76.4 -3.1	7.6 8.4	-49 -170.8	-241.2 -6.7	7.7 0.8

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
MEAN	-3532.4		-1843.5		-454.8		200		211.3		-129.7		
RMS	233.9		152.7		98.5		110.9		127.8		239.2		
1/2 P-P	412.4		258.7		173.7		207.3		236.5		465.8		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE		
1st	20.7	-243.6	20.2	-169.8	34.8	-126.6	54.1	-135.4	66.3	-151.8	149.2		
2nd	179.8	-112	110.9	-61.6	31.8	-14.6	-21.4	14.6	-44.3	24.3	-235.5		
3rd	-46.6	-33.7	-22.5	-20.7	0.3	-4.6	14.6	6.5	20.4	12.4	-162.8		
4th	6.8	-5.6	5.3	-3.4	2.1	-0.7	-3.3	1.3	-6.6	3.1	18.9		
5th	-5.5	2.7	-0.7	2.2	6	3.2	10.5	4.3	10	3.8	-11.1		
6th	3.3	-3.4	3.1	-2.1	1.7	0.3	-1.5	2.9	-3.3	3.4	7		
7th	-4.3	-2	-1.4	-1.5	3.7	0.2	5.3	2.1	2.9	2.8	-1.2		
8th	9	-12.8	1	-1.7	-10.7	12.9	-21.3	22.8	-19.3	20.6	-3		
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725		Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Chord Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400		
MEAN	-268.2		-347.7		-177.7		-799.5		-2777.3		-377.8		
RMS	243.8		198.8		91.2		293.5		220.8		106.8		
1/2 P-P	453.6		387.2		217.5		653.8		573.3		165.1		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE		
1st	159.2	-220	125.6	-163.8	30.8	-37.8	-281.4	213.9	-162.7	178.6	66.9		
2nd	-173.4	94.7	-133.7	86.5	-42.8	36.3	-94.5	119.9	33.7	-15.7	-133		
3rd	-10	65.4	-29.3	69.4	-29.2	61.4	30.4	-8	-36.1	31.9	-18.2		
4th	-3.9	-2.3	-1	-8.1	-12.8	-4.8	2.6	7.1	-32.9	-71.1	16.3		
5th	-16.2	-14.3	-16.3	-15.5	-2.9	-15.3	27.7	-12.9	-55.9	13.4	-1.8		
6th	10.6	-7.9	6.2	-7.7	0.7	-1.6	6.6	-1.8	-3.4	4.6	3.7		
7th	1.6	-0.5	7	0.7	3.6	1	-24.2	-0.1	21.6	2.9	-1.6		
8th	-6.5	7.3	-29.9	32.2	-31.6	34.4	11.7	-33.4	-9	30.9	2.9		

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
18/15	-3696.6	-5687.5	-3679.2	-6272.2	-3079.2	-1038.8
MEAN	359.2	568.1	389.3	650.3	531.7	407.4
RMS	614.3	967.7	631.1	1112.8	917.3	759.8
1/2 P-P						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	335.1	323	-306.5	-71.5	-418	287.6
2nd	-158.7	111.6	62.9	-111.1	173.7	-107.7
3rd	-33.1	34.4	-17.6	-11.5	38.5	29.7
4th	5.4	-5.4	3.5	17.6	9.9	-3.4
5th	3.2	-0.5	1.6	23	2.4	-2.7
6th	-3.9	3.6	10.1	-5.8	6	0.8
7th	-2.2	3.5	-32.1	1.2	4.3	1.9
8th	9.5	-20.3	1.7	-30.6	15.1	-14.6
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
18/15	-1758.1	-376.6	-3429.6	-7583.3	-422.1	-111.5
MEAN	327.1	125.4	273.8	354.1	109	15.7
RMS	707.1	192	496.9	688.5	170.9	27.3
1/2 P-P						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	351.5	-234.7	-74	159.3	-249.4	-177.1
2nd	3.8	-0.1	-16.5	16.4	-190.9	120.7
3rd	50.3	-17.9	0.6	-3.3	30.6	-50.5
4th	-74	-91.9	0.6	6.1	9.4	-4.5
5th	44.5	-25	1.1	0.4	1.9	6.5
6th	4.5	-4.4	0.4	0.2	-3.9	0.5
7th	17.8	-8.9	-0.2	-0.3	1.6	-2.2
8th	0	14.7	-0.9	1.3	12.2	-24

		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
RUN/POINT													
MEAN	-2158.8		993.1		-109.3		344.2		320.4		-35.3		
RMS	148.4		96.9		77.6		113.1		135		242.9		
1/2 P-P	287.5		181		142.7		226.2		257.9		448.7		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-148.2	-94.6	-86.5	-83.2	-10.1	-104.4	28.2	-146.3	41.2	-172.6	82.3	-289.9	
2nd	50.4	-85	33.5	-46.8	4.2	-10	-22.8	13.6	-38.8	22.1	-132.6	60.1	
3rd	23.5	-24.1	15.7	-14.6	3.9	-6.7	-7.2	-0.5	-13.4	3.6	-50.6	36.1	
4th	16.5	10.6	10.5	5.4	2.4	-2.5	-7.8	-8.5	-13.9	-9.5	-12.6	-0.3	
5th	-4	-21.4	-1	-7.2	1.7	10	2.3	26.4	0.9	30.7	0	1.1	
6th	5.1	-5.4	4.3	-2.6	1.9	0.9	-2.7	4.8	-4.1	5	0.9	-1.5	
7th	-1.5	-1.3	1.9	-1.1	6.9	0	6.8	1.1	4.2	1.7	-8	-3.6	
8th	8.2	-6.9	2.4	-2	-5.8	5.3	-14.6	10.5	-14.6	9.2	20	-4.2	
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725		Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Chord Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400		
MEAN	-268.4		-443.8		-380.5		-6866.8		-2636.2		-423.6		
RMS	263.3		236.3		131.5		523.2		323.2		106.4		
1/2 P-P	506.8		498.2		317.5		940		753.5		167		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	72.2	-279.8	68.4	-207.4	17.7	-50.8	-519.9	480.7	-198.7	294.5	76.3	-125.8	
2nd	-189.6	74.8	-196.8	60.7	-116.5	25.1	51.7	123.1	64.5	-26.8	-26.2	13.9	
3rd	-59.5	66.3	-63	75.9	-62.9	57.7	39	-9.6	-56.2	-2.5	-6.7	-0.1	
4th	19.2	16	33.2	18.6	27.4	22.8	-10.1	14.8	103.5	-147.7	-5.5	1.7	
5th	3.5	-62.2	3.8	-75.8	12	-55.3	30.1	47	-42.1	-112.7	-2.7	-2.1	
6th	15.2	-9.1	19.7	-8.5	11.1	-6.5	10.1	2.3	-11.1	-0.9	0.6	-1.6	
7th	2.9	-0.7	8.9	0.5	5.5	2.4	-28.3	-0.8	25.7	3.3	0.9	-0.4	
8th	-4.2	1.9	-22.8	16.5	-21.5	19.4	18	-21	-15	18.2	-0.6	0.2	

RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144
18/16	-2314.4	-4580.3	-2280.5	-5161.5	-2093.1	-613.8	
MEAN	217	890.5	2226	913.3	759.7	565.9	
RMS			392.1	1546.7	1283.6	971.3	
1/2 P-P	363.6	1463.2					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	233.3	168.7	-622.1	-1072.1	-238.9	176	1125.3
2nd	-18	73	-89.8	-115.1	37.7	-70.7	43.3
3rd	-27.3	-46.6	-17.2	-21	-38.6	23.6	-26.8
4th	14.7	10.5	-13.4	12.3	19	11.8	9.3
5th	28.3	-1.1	-35.1	31.5	-2.4	23.2	-30.9
6th	-7.6	5.1	12.8	-3.7	7.1	-0.8	-5.9
7th	-2.1	2.6	-24.5	1.9	0.1	2.2	-19.1
8th	15.9	-6.3	14.2	-23	11.9	-1.1	17.6
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Torsion, in-lb	Pitch Link, lb
	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1
18/16	-1567.7	-417.6	0	-6532.6	-473.4	-111.8	
MEAN	449.3	124	0	627.7	107.5	13.6	
RMS		192.1	0	1111.8	170.6	26.6	
1/2 P-P	891.1						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	425.3	-400	-82.8	152.1	0	504.1	702.9
2nd	50.3	-8.1	-21.5	13.9	0	-39.9	-103.3
3rd	52.3	15.4	6.5	-0.1	0	21.6	34.4
4th	51.4	-139.2	-3.7	3.7	0	6.3	4
5th	50.9	117.7	1.9	1.5	0	38.6	-31
6th	12	0.3	1.5	-0.3	0	8.3	9.9
7th	8.9	-9.9	-1	0.1	0	-21.7	7.1
8th	-5.6	6.2	-1.2	0.7	0	18.7	-17.7

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		
	Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.400		
MEAN	-835.5	-171.1	224	484.4	427.6	80.9					
RMS	236.6	155	109.4	138.3	161.4	274.1					
1/2 P-P	467.1	299.6	200.6	289	311.7	544.2					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE		
1st	-229	-203.5	-140	-150.5	-29.1	-146.2	14.6	-180.1	26.7	-208	21.2
2nd	-20.8	-32.4	-8.9	-17.2	-11.3	1	-24.3	14.9	-37.2	19.7	-145.9
3rd	73.9	-94.2	44	-53.6	3.1	-14.7	-29.3	14.8	-44.1	29.1	-117.3
4th	18.3	23.6	11	10.9	3.1	-5.8	-7.4	-17	-13.2	-19.7	-15.5
5th	15.7	-0.4	5.5	0.7	-7.2	1	-21	3	-27.4	4.2	2.7
6th	5.5	-0.7	3.9	-0.5	1.9	-0.1	-3.8	1.3	-5.3	1.1	-1.1
7th	-2.5	4.1	1.7	4.6	9.6	5.9	11.9	6.7	8.2	4.8	2.2
8th	12.3	-16.5	3	-6	-11	8.8	-24.2	20.4	-23.5	20.3	-10.9
											-13.1
RUN/POINT	Flap Bending, in-lb	Flap Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb					
18/17	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.570					
MEAN	-226.5	-504.9	-562	-5672.5	-2520.1	-464.2					
RMS	300.1	291	198.9	1478.2	547.7	105.8					
1/2 P-P	575	613.9	479	2290.1	1158.6	172.1					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-17.1	-287.8	13.7	-200.9	6.7	-39.8	-1330.3	1580.3	-309.4	567.7	90.4
2nd	-242.1	31.8	-290.1	12	-202.7	7.9	220.5	122.8	137	-41.8	-31.9
3rd	-116.7	131.4	-104.8	141.3	-110.5	87.2	85.8	2.7	-111.6	-24.9	-12.3
4th	4.2	18.6	19.9	29.5	37.8	39.1	-4.9	13.6	65	-316.5	-6.6
5th	62	-18	72.6	-31.2	62.4	-19.8	9.8	43.1	5.2	-103.8	4.4
6th	15.9	-6.7	11.8	-9.7	-8.4	-14.4	6.7	-14.6	-7	15.1	-3.5
7th	4	2.6	20	2.1	19.4	-0.4	-17.2	14.3	20	-11.9	0.5
8th	-9.2	1.9	-34.8	30.2	-30.2	36.6	7.5	-88	-2.2	82.7	0.7

RUN/POINT		Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
18/17	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	-956.4	-3430.5	-895.7	-3986.1	-1035	-175.1	
RMS	233.3	1698.8	218.3	1755.9	1475.7	996.9	
1/2 P-P	360.9	2610.8	349	2711.3	2277.7	1653.7	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	SINE
1st	279.4	59.9	-1527.1	-1825.2	-109.5	240.7	1887.4
2nd	43.8	24.4	-226.1	-139.1	-40.1	-31.6	202
3rd	-104.5	-105.8	-9.8	-69.3	-100.7	100.4	-68.3
4th	13.3	24.5	-14.1	21.8	17.2	26.8	14.9
5th	11.1	21.2	-30.3	29.4	-21.8	9.4	-11.5
6th	-5.9	2.6	2.6	0.6	6.1	0.9	2.4
7th	-0.3	6.6	-1.7	38.4	1.2	-1.7	14.3
8th	17.1	-14.8	-0.1	-92	14.8	-4.6	6.5
RUN/POINT		Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Pitch Link, lb
18/17	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1
MEAN	-1374	-457.9	0	-5406.7	-522.4	-108	
RMS	761.7	121.8	0	1524.3	107.4	13.8	
1/2 P-P	1430	192.9	0	2345.6	178.4	28.2	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	SINE
1st	627.1	-781.7	-96.3	138.5	0	1430.7	1583
2nd	117.5	-13.4	-28.2	1.2	0	-204.5	-122.9
3rd	102.6	48.1	13.5	.2	0	1.6	80
4th	19.5	-311.7	-5.4	4.3	0	13.8	-8.6
5th	-13	122.4	-0.2	4	0	32	-26
6th	2.4	5.9	1.3	0.1	0	6	5.6
7th	-9.4	-28.5	-0.8	-1.3	0	0.1	17
8th	-3.7	30.5	-1.6	0.6	0	9.4	-82.5

		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
RUN/POINT	18/18												
MEAN	-111.3		279.2		408.2		566.1		491.7		147.1		
RMS	313		197.9		114.2		142.2		169.9		302.4		
1/2 P-P	536.3		346.9		222.6		279.7		321.7		579.9		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-379	-160.8	-233.6	-124.2	-66	-141	-1.4	-184	13.8	-216.5	0.6	-356.7	
2nd	-46.7	-37.8	-24.5	-20.1	-18.7	-0.9	-28.4	12.2	-40.1	17	-142.8	29.4	
3rd	119.8	-75.6	69.2	-42.7	5.5	-15.4	-43.7	5.6	-66.1	17.2	-164.9	74.9	
4th	21.7	23.3	12.8	9.8	4.4	-7.7	-6.4	-21.8	-13.5	-25.5	-18.6	-10.4	
5th	-0.3	-26.7	-1.4	-10.6	-4.2	10.7	-9	31.7	-10.4	37.4	4.9	2.4	
6th	12.2	3.4	6	1.9	-1.6	-0.2	-11.9	-2.2	-14.4	-3.1	5.9	3.3	
7th	-0.1	1.9	1.6	3.3	4.7	6.3	4.4	7.3	1.2	6	-2.8	-11.2	
8th	0.8	-12.3	-0.6	-4.4	-3.3	8.7	-7	17.8	-6.2	16	14.8	-20.4	
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725		Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Chord Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400		
MEAN	-202.4		-528.3		-649.3		-493.5		-2452.6		-481		
RMS	339.4		335.2		234.6		1877.4		720.2		109.1		
1/2 P-P	659.3		698.7		551.8		2855.8		1437		184.2		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-51.7	-330.1	-5	-230.8	5.1	-50.2	-1482.3	2167.7	-310.4	742.5	101.5	-108	
2nd	-267	18.7	-346.4	-10.3	-255.6	-5.5	292.9	149.9	166.1	-48	-36.4	10.1	
3rd	-153.8	118	-129	127.7	-137.3	67	104.5	13.2	-145.1	-74.5	-12.5	-9.1	
4th	6.8	35.6	29	52.5	54	58.9	-12.5	21	213.9	-461.8	-8	7.9	
5th	27.9	-75.3	30.2	-97.1	36.5	-59.3	34.2	82.5	-43.9	-201.4	-0.9	-4.3	
6th	23.2	2.5	11.8	3.2	-15.9	-8.9	-11.1	-8.1	11.6	11	1.2	-0.7	
7th	0.8	4.1	4.6	10.6	-1.9	10.2	9	-2.1	0.9	2.1	-0.6	0.9	
8th	-4.8	4.6	-11.2	27.7	-4.8	34.9	-37.9	-71.4	40	70.3	0.2	1.1	

RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	-235.4	-2726.2	-181.9	-3281.1	-411.1	80.4
RMS	234.4	2159.9	214.5	2193.8	1847.2	1247.4
1/2 P-P	416.5	3327.5	375.1	3362.2	2833.4	2149.1
HARMONIC	COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE
1st	249.5	-43.4 -2104.8	-2174.8 -12.5	233.8 2172.1	-2176.9 1856.6	-1806.4 1108.2
2nd	89.2	23.5 -311.8	-167.8 -76.4	-22.2 265.7	220.5 214.7	185.9 169.4
3rd	-94.1	-157.7 15.8	-91.6 -145.7	81.2 -101.3	0.9 -73.8	15.2 33.8
4th	12.9	25.3 -20.2	28.9 17.7	28.8 21	3.8 40	-57 119.9
5th	40.8	1 -80.1	52 -1.5	31.3 -44.7	-91.8 -25	-47.8 29.8
6th	-10.3	-1.4 3.4	9.7 8.8	0.5 3.5	-8.3 4.7	-6.5 2.9
7th	0	4.7 15.4	20.7 1	-0.4 31.9	30.2 22.4	20.6 4.8
8th	2.5	-14.7 -44.3	-69.3 5.1	-9.4 -44.4	-78.6 -33.2	-70.6 -11.6
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Pitch Link, lb
	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1
MEAN	-1263.9	-473	0	-4733.1	-543.6	-102.7
RMS	967.4	123.3	0	2025.6	112.9	11.4
1/2 P-P	1784.9	197.5	0	3101.3	189.6	24.9
HARMONIC	COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE
1st	684.9	-1022.4 -107.4	132.7 0	0 2122.2	1886.7 -104.7	-114.3 10.3
2nd	143.5	5 -28.1	12.5 0	0 -277.4	-141.1 32.4	-2.2 -8.4
3rd	110.4	98 12.2	7.8 0	0 0	-16.5 102.7	15.1 -7.7
4th	137.1	-471.5 -5.3	6.5 0	0 0	16.1 -7.5	-4.9 8.9
5th	70.3	226.1 0.4	3 0	0 0	77.9 -45.1	-3.5 -0.2
6th	2.8	13.1 0.8	-0.4 0	0 0	-0.8 -2.1	-2.3 1.6
7th	-21.7	-18.3 0.6	-1.3 0	0 0	28.8 6.5	-0.8 0.1
8th	14.8	29.1 -1	0.8 0	0 0	-35.1 -76.1	-1.4 1.5

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
18/19													
MEAN	567.5	701.1	580.2	639.1	551.4	219.6							
RMS	236.8	150.1	100.2	147.5	181	329.4							
1/2 P-P	441.7	287.6	185.5	292.4	346	637							
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-254.5	-108.9	-160.8	-91.1	-33.5	-131.1	6.9	-185.4	17.9	-222.1	-21.6	-369.	
2nd	-22.5	-2.2	-10.9	1.6	-15.6	5.9	-31.6	11.3	-45.4	12.2	-170.9	-1.	
3rd	152.6	-89.1	86.3	-49.2	3.2	-15.6	-58	11.3	-87.4	25.2	-206.6	82.	
4th	24.7	28.8	13.8	12.4	3.2	-8.7	-8.8	-24.6	-18.1	-28	-22	-15.	
5th	3.1	-32.2	0.1	-11.8	-6.8	13.3	-15.2	37.6	-17.9	45.8	9.5	2.	
6th	14.2	5.6	6.9	2.6	-2.2	-2.7	-14.2	-5.8	-17.3	-7.5	5.5	8.	
7th	-1.6	3.1	1.7	4.8	6.9	8.1	7.4	8.9	5.4	7.5	-6	-11.9	
8th	2.5	-12.3	-1.2	-5.3	-6.9	7.1	-13.7	16.7	-11.3	16	19.2	-14.	
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Chord Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400			
18/19													
MEAN	-161.2	-532.3	-721.1	-4187.4	-2396.9	-491.2							
RMS	383.9	392.3	282.8	2480.1	894.3	107.7							
1/2 P-P	769.4	815	623.4	3764.2	1755.9	185.2							
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-94.6	-338.3	-32.3	-229.3	-3.6	-46.2	-2417.8	2506.2	-454.5	858.3	106.9	-98.2	
2nd	-323.7	-21.8	-430	-52.9	-319.8	-22.8	278	176.4	200.7	-39.1	-41.1	5.6	
3rd	-188.3	136.1	-153.7	145.5	-167.3	68.3	133.3	48.1	-216	-99.6	-12.9	-8.5	
4th	11.4	32.4	42.8	52.1	78.6	61.6	-18.1	30.4	314	-595	-6.8	6.2	
5th	41.4	-85.5	43.9	-106.1	49.2	-53.4	37.1	96.8	-46.5	-242.7	3.1	-5.4	
6th	28	3.9	14.1	-2.3	-23.9	-22.3	-8.5	-5.8	12.1	14.9	1.1	-1.4	
7th	1.1	5.2	9.9	9.7	5.1	4.6	1.6	-27.4	6.7	31	0	0.1	
8th	-8.5	2.8	-19.5	20.7	-9.9	29	-24	-105.5	27				

RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
18/19	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	473.2	-1980.4	544.8	-2533.4	259.7	-2024.7	1481.1	-1457.2
RMS	218.3	2801.2	191.4	2724.6	2303.7	204.6	186.9	89.6
1/2 P-P	408.8	4293.5	370.1	4196.4	3551.8	-82.9	69.8	66.6
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	180.3	59.1	-2429.4	-3098.7	-70.5	136.3	2956.7	2525.2
2nd	60.7	-10.1	-297.4	-193.2	-54.5	-4.3	262.2	216.8
3rd	-106.4	-199.6	23.7	-129.8	-184.6	92.2	-121.6	-38.4
4th	17.4	28.8	-29.5	27.3	22.6	32	22.6	0.1
5th	40.9	9.3	-82.6	53.8	-10.3	35.5	-49.2	-92
6th	-12.4	-6.8	2.5	12.6	11.7	6	16	7.1
7th	2.7	7.2	8.9	5.9	2.6	-3.7	46.9	23.9
8th	6.5	-19.9	-37.9	-106.8	6.4	-14.1	-45.2	-119.1
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Pitch Link, lb
18/19	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1
MEAN	-1144.6	-485.2	0	0	-4006	-558.7	-95.5	
RMS	1171.2	120.7	0	0	2639.4	114.6	10.2	
1/2 P-P	2176.6	202.2	0	0	4055.9	192.9	21	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	899.5	-1154.4	-112	121.8	0	0	2339.4	2880.6
2nd	171.5	7.2	-34.5	10.9	0	0	-260.2	-169.6
3rd	172.6	107.5	12.9	8.2	0	0	-32.7	138.9
4th	225.3	-622.4	-5.9	10.2	0	0	19.9	-23.2
5th	68.6	262.8	-2.1	4.5	0	0	81.4	-45.5
6th	-6.2	21.1	0.6	-0.3	0	0	-4.3	5.1
7th	-33	-18.3	0.3	-0.6	0	0	30.7	-14.9
8th	15.8	45.8	-1	1.7	0	0	-20.4	-111.1

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
MEAN	1946.4	1557.7	928	794.3	670	350.2							
RMS	328.7	206.3	137.5	173.9	209.5	373.5							
1/2 P-P	614.6	386.5	247.2	331.5	398.8	699							
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-241.2	-262	-157.4	-177.4	-23.8	-182.1	6.7	-220.1	15.7	-257.1	-57.3	-422.4	
2nd	-160.9	41.6	-93.8	25.1	-44.7	15.5	-32.3	12.2	-38.4	13.6	-145.7	-12.9	
3rd	214.5	-106.4	122	-59.6	7.7	-20.3	-77.5	12.1	-113.7	28.4	-262.3	83.7	
4th	28.4	30.3	17.1	10.5	7	-14.2	-8	-30.2	-17.4	-34.3	-27.8	-17.1	
5th	4.7	-37.8	0.2	-14.8	-8.3	14	-18.9	40.3	-22.5	51	11	1.7	
6th	14.2	4.2	6.1	1.9	-3.9	-3.3	-16.3	-5	-20.1	-6.4	7.7	8.6	
7th	0.8	5.8	2.1	5.2	5.5	5.2	5	5.5	1	3.2	-2.4	-8.9	
8th	0	-10.5	-1.3	-6.4	-3.8	2.3	-8	8.7	-7.2	9.2	14	-8	
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800	Flap Bending, in-lb Blade 1, r/R=0.900	Flap Bending, in-lb Blade 1, r/R=0.144	Chord Bending, in-lb Blade 1, r/R=0.570	Chord Bending, in-lb Blade 1, r/R=0.570	Torsion, in-lb Blade 1, r/R=0.400						
MEAN	-108.1	-572.6	-872	-2523.6	-2220.1	-496.2							
RMS	438.2	462.5	354.1	4600.4	1437.2	118							
1/2 P-P	904.7	970.6	706.9	6901.9	2726.7	204.4							
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-162.4	-383.5	-63.4	-258.3	-7.8	-60.4	-4287.3	4838.2	-733	1447	131.2	-94.8	
2nd	-353.4	-56.4	-528.4	-93	-424.9	-34.9	-629.7	170.8	293.1	-58.9	-28.4	15.7	
3rd	-230.3	125.6	-175	121.5	-200.3	29.2	224.2	109.3	-272.1	-147.9	-11.5	0.4	
4th	4.2	28.8	36.9	52.5	89.3	56.6	-26.2	63.6	556.2	-940.7	4.9	18.4	
5th	50.5	-92.1	52.9	-117.7	54.2	-52.8	35.9	96.8	-55.9	-267.8	7.6	-4.7	
6th	26.6	1.9	11.7	-1.5	-32.7	-23.9	2.4	1	4.9	16.9	0.4	-3	
7th	2.9	7.3	5.3	8.7	1.1	0.7	7.1	-15.1	20.6	19	-0.5	-0.7	
8th	-7.9	-0.2	-14.3	12.2	-3	23.3	-48.4	-95.8	49.4	94.1	-0.3	1.4	

RUN/POINT		Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	18/20	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN		1860		-397.1		1979.2		-1073.5		1558.8	
RMS		348		4746.9		287.8		4580.1		3880.3	
1/2 P-P		665.7		7107.7		552.7		6846.1		5827.1	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	322.3	84	-4546.4	-4885.2	-20.8	232.2	4487.2	-4613.9	3856	-3857.2	2205.2
2nd	194.3	-50.4	-615.4	-231.9	-191.3	22.6	616.4	231.9	505.2	192.8	354.5
3rd	-126.1	-263.9	88.6	-203.8	-237.8	111.3	-197.9	-88.2	-143	-49.3	68.2
4th	24.7	35	-20.6	89.5	29.7	36	41.5	-6.9	95.4	-107.3	302.9
5th	46.3	9.9	-69.7	48.6	-10.1	42.5	-46.2	-94.5	-23.4	-44.7	30
6th	-16.1	-3.8	-11.9	5.8	15.3	4.5	-0.6	-9.4	-0.2	0.4	0.6
7th	7.2	4.3	3.1	17.7	-0.5	-5.4	37	42.6	28	34.1	-7.4
8th	4.1	-15.9	-55.3	-88.2	6.7	-7.8	-54.4	-108.9	-42.5	-99.9	-17.7
RUN/POINT		Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	18/20	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 4, r/R=0.400	Pitch Link, lb
MEAN		-906.5		-494		0		-2454.4		-572	
RMS		1819.5		128		0		4632.4		127.6	
1/2 P-P		3224.1		206.1		0		6925.4		202.6	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	1296	-1965.8	-134.8	114.9	0	0	4415.8	4787.8	-95.3	-149.4	5
2nd	288.7	-16.5	-19.8	24	0	0	-588.1	-248	23.9	-11.2	-7.2
3rd	211.2	157.9	10.2	4.7	0	0	-115.1	190.9	9.1	1.9	1.2
4th	345.2	-828.4	2.3	14.9	0	0	36.3	-9.1	6.3	16.1	0.6
5th	86.7	295.6	-5.1	2.9	0	0	64.8	-43.8	-2.9	-4.6	-1.2
6th	2.7	24.6	-0.3	-1.7	0	0	-8.9	6.9	-0.3	1.9	0.1
7th	-41.2	-30.4	0.7	0.4	0	0	38.5	8.4	-1	-0.8	-1.3
8th	18.8	35.8	-0.9	1.9	0	0	-38.6	-90.5	-1.9	2.1	0.2

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb							
		Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325
MEAN	3564.5	2563.3	1336.7	981.4	817.7	519.6					
RMS	469.3	289.9	120.8	171.4	215.9	411.7					
1/2 P-P	736.4	448.9	249.9	331.2	409.9	781.1					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-524.3	15.9	-336.8	-0.2	-87.7	-118.3	-19.1	-205.2	-1.5	-254.4	-92.7
2nd	-256.9	46.1	-152.6	25.2	-66.3	19.3	-37.8	13.2	-37.2	13.9	-141
3rd	273	-122.9	154.6	-69.4	13.7	-25.8	-91.8	8.8	-135.9	27.6	-30.6
4th	27.8	40.6	17.2	13.2	7.6	-20.5	-7.1	-45.5	-16.7	-51.1	80.4
5th	15.7	-33.5	5	-13.4	-11.3	11.4	-28.7	34.6	-33.4	42.5	-25
6th	17.1	5.1	8.5	1.1	-3.3	-5	-16.2	-8.1	-20.9	-9.2	1.4
7th	-2.3	5.4	-1.6	4.7	0.6	5.1	-0.7	5.1	-2.2	3.7	8.2
8th	0.9	-13.3	-0.9	-5	-3.5	8.5	-8.2	19.5	-6.7	17.9	-6.9
RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
18/21	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.400		
MEAN	-23.5	-586.5	-1008.2	-637.3	-2052.7						
RMS	503.5	553.7	442.7	6111.4	1886.8						
1/2 P-P	1043.1	1116.9	894.3	9034.8	3544.5						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-234.6	-411.1	-106	-282.5	-15.2	-93	-5741.3	6395.3	-922.5	1900.8	153.1
2nd	-405.3	-111.7	-642.6	-164.6	-535.1	-73.3	822.9	106	384.2	-78.9	-0.2
3rd	-272.8	125	-196.9	107.8	-229.8	-10.1	276.4	100.9	-353.2	-272.8	-5.6
4th	1.6	48.2	43.2	95.7	117.4	93.6	-5.5	91.1	556.1	-1367.4	10
5th	70.2	-75.6	75.7	-104.1	76	-28.1	85	79.8	-110.6	-251.6	26
6th	31.5	10.8	14.2	13.1	-38	-19.5	3.8	10.9	-4.2	12.6	-5.3
7th	-1.2	5.9	-5.3	4.6	-8.7	-4.2	-7.9	5	37.1	3.8	-2.9
8th	-6.6	5.1	-10.3	26.2	1.6	39	45.7	-80.9	54.9	82.8	-0.4

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
18/21						
MEAN	3464.1	1455.6	3598.2	500.1	2968.4	1432.1
RMS	357	6152.2	366.5	5964.3	5073.6	3215.6
1/2 P-P	668.1	9158.4	636.1	8773.3	7538.4	5326.3
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-14.1	-160.2	-5764.2	-6452.1	-244	-54.4
2nd	283.1	-42	-799.2	-202.6	-290.4	35
3rd	-151.4	-337.4	128.3	-286.4	-307.2	130.7
4th	30.5	48.4	20.6	126.4	27.7	49.4
5th	54.8	8.4	-79.6	69.1	-20.3	43.2
6th	-19.8	-4.7	3.9	-6.2	15.1	8.5
7th	5.1	6.9	-35.9	24	1.9	-4
8th	1.1	-15.3	-51.1	-76	-2	-6.6
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
18/21						
MEAN	-670.9	-464.1	0	-695.5	-555.2	-33.2
RMS	2397.9	140.2	0	6130	141.6	26.5
1/2 P-P	4254.6	228.2	0	9209.6	230.8	49.7
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	1575.9	-2606.9	-153.4	107.9	0	5717.4
2nd	371.8	-46.6	11.4	49.1	0	-788.7
3rd	319.9	327.2	10.7	-9.2	0	-162.6
4th	297	-1285.3	20.8	27.8	0	81.4
5th	111.8	297.6	-10.1	5.6	0	82.6
6th	2.1	30.3	-2.1	-3.4	0	14.3
7th	-24.4	-42.4	1.6	-1.3	0	13.7
8th	20.5	20.4	-0.7	2.8	0	-47.9

		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
RUN/POINT													
MEAN	-3554.3		-1884.5		-1032.8		15.2		56.9		-388		
RMS	597.2		343.4		150.6		178.9		216.2		445.3		
1/2 P-P	1120.4		633.2		357.1		426.5		495.8		913.5		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-376.6	143.1	-214.8	46.4	53.7	-138.6	65.2	-166.5	97.6	-195.6	316	-339.1	
2nd	543.3	-419.6	331.5	-236.1	-34.1	49.4	-42.9	59.8	-87.9	98.6	-259.5	255.8	
3rd	-214.2	153.6	-116.2	78.2	61.3	-33.4	73.2	-39.3	95.9	-52.4	202	-28.9	
4th	-33	-41	-14.7	-22.8	3.5	21.1	3.8	26.2	1.3	33.2	4.4	29.2	
5th	-36.8	38.9	-10	13.9	46.8	-31.7	53.7	-37	56.2	-47	-11.6	3.7	
6th	8.6	-5.3	6.5	-2.6	-3.3	7.3	-3.3	8.4	-9.3	10.3	4.1	-4.1	
7th	7.4	-0.9	5.3	-1.6	-4.9	-1	-7.4	-1.5	-11.6	2	6.6	4.1	
8th	-6.8	-45	-0.1	-8.7	1.1	71.1	2.1	81.6	4.9	77.1	24.2	-87.6	
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800	Flap Bending, in-lb Blade 1, r/R=0.900	Flap Bending, in-lb Blade 1, r/R=0.144	Chord Bending, in-lb Blade 1, r/R=0.570	Chord Bending, in-lb Blade 1, r/R=0.570	Chord Bending, in-lb Blade 1, r/R=0.400						
MEAN	-476.8	-447.1	-139.3	-9363.7	-2715.2	-331.7							
RMS	434.7	339.7	227.7	772.8	272.4	144.4							
1/2 P-P	930.8	702.7	628.9	1457.5	657.9	221.8							
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	311.5	-348.3	193	-265.3	46.6	-67.8	353.8	-915.8	-196.6	-68	64.6	-182.4	
2nd	-139.7	310.2	-2.7	244.2	92.3	70.3	-362	234.4	49.1	-79.7	-35.7	17.6	
3rd	102.7	20.8	55.1	84.4	64.2	103	47.9	-84.5	18.1	39.9	38.1	-9.9	
4th	-7.4	-34.2	-43	-72.2	-75.4	-29.7	28.4	-4.7	-144.3	112.8	-3.4	27.4	
5th	-118.9	80.3	-108.4	105.9	-74.1	51.1	54.1	-67.1	-132.2	113.3	-7.5	6.9	
6th	8.2	-18.2	-8.9	-23.4	11.9	-8.2	-10.8	13.9	12.5	-18.9	-1.4	-4.5	
7th	11.4	3.2	-3.8	-9.4	-27.9	2.9	21.3	7	-12.1	-8.5	4	-3.3	
8th	-2.6	27	1	112.5	-10.4	108.4	-10.5	-20.4	12.1	14	2.8	2.6	

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
24/18						
MEAN	-3663.1	-6984.3	-3692.2	-7145.6	-3876.7	-1334.7
RMS	488.3	712.5	503.5	778	644.3	354.6
1/2 P-P	922.9	1324.7	894.3	1332.8	1116.8	734.3
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-21.6	-39	884.3	150.9	-104.3	-25
2nd	-481.6	413.6	326.1	-253.6	512.9	-400.1
3rd	178.5	171.8	-83.2	-15.9	199.2	-159.4
4th	-23.3	-24.3	50.5	37.4	-21.2	-26.2
5th	-22.3	-37	42	34.8	35.3	-44.6
6th	-12.2	3.7	17.7	-8.2	7.3	-3.6
7th	0.7	-3.7	27.5	4.7	-8.5	0.6
8th	-7.8	-73.4	-20.1	-25.8	-1.9	-29.1
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
24/18						
MEAN	-1761.4	-331.6	-3657.1	-8621.5	-380.4	-42.3
RMS	290.9	166.1	543	776.1	146.5	10.7
1/2 P-P	735.8	249.2	1065.5	1402.6	218.5	28.4
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	258.5	190.2	-72.1	213.1	117	164.4
2nd	-7.2	-12.5	-36.4	21.9	-540	408.7
3rd	17.8	-24.9	-37	19.9	-172.3	-220.1
4th	-53.8	41.4	1.2	28.7	-32.9	-28.5
5th	120.5	-154	5.6	-5.6	49	37.5
6th	12.9	-5	-3.1	-3.4	-6.3	5.2
7th	-29.2	1	-1.6	2.9	1.8	3.5
8th	6.5	17.3	1.6	1.5	-6.7	-64.9

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
MEAN	-2349.3		-1140		-918.8		140.7		156.2		-286.4		
RMS	440.2		259.1		138.8		164.8		198.3		396.7		
1/2 P-P	800.8		473.6		285.7		338.9		404		778.2		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE		
1st	-246.5	5	-140.4	-41.3	47.7	-162.3	58.4	-192.7	81.3	-218.5	243.6		
2nd	448.4	-314.6	272.5	-176.8	-43.9	40.9	-54	49.1	-95.6	79.3	-344.7		
3rd	-133.1	78	-70.3	37	35.3	-16.8	42.4	-18.7	53.7	-22	194.8		
4th	2.9	-9.4	3.7	-5.8	-10.7	5.1	-13.3	7.1	-20.5	9.8	33		
5th	-4.2	1.5	2.9	-0.3	11.6	1.4	13.2	0.8	10.3	0.4	18.3		
6th	11.6	-3.7	7.1	-2.4	-8.9	5.3	-9.4	6.4	-15.7	7.4	7.5		
7th	-0.5	-0.3	3.4	-1.2	5.8	0.9	5.2	0.9	1.7	3.8	1.6		
8th	6.7	-29.9	2	-6.2	-16.5	45	-18	51.4	-16	49.7	39.6		
RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.725		Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Chord Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400	
MEAN	-494.7		-554.9		-331.8		-9301.4		-2715.5		-370.6		
RMS	383.1		290.2		152.9		746		308.8		136		
1/2 P-P	728.1		535.4		359.1		1347.6		710.4		213.6		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE		
1st	242.4	-328.7	165.2	-241.6	27.8	-58.3	-452.9	-850.5	-348.8	-40.2	72.9		
2nd	-247.2	220.7	-147.8	166.2	-8.3	50.2	-321.5	215.8	98.5	-94.9	-168.2		
3rd	31	97.4	-10.1	143.9	-10.5	134.5	54.6	-69.3	19.7	26.7	10.1		
4th	15.6	-8.1	4.2	-24.9	-33.6	2.4	17.9	-23.5	-80.2	103.4	-42.6		
5th	-28	9.8	-17.1	-18.2	-0.3	-19.9	25.5	-10.5	-50.6	-9.2	25.3		
6th	14.5	-19.6	-7.9	-29.6	-3.2	-21.7	-6.8	-5.8	4.8	8.7	-10.4		
7th	2.3	-6.8	2.1	-20.4	-12.8	-17.6	19.8	12.4	-15.1	-5.2	-5.1		
8th	-14.1	12.3	-24.9	68.4	-17	77.4	-19.3	-22.9	18.3	21.9	-0.9		

RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
24/19	-2441.7	-6894.5	-2452.1	-7083.7	-3769.6	-1361.6	
MEAN							
RMS	382	838.5	406.4	1022.6	862.6	551.8	
1/2 P-P	631.2	1419.1	662.5	1774.9	1472	924	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	109.9	95.5	862.3	-698.7	-221.4	100.5	996.8
2nd	-393.6	303	284.5	-251.2	405.5	-289	-310.3
3rd	86.5	98.8	-64.8	-30	125.4	-69.4	-43.3
4th	8.8	0.1	25.7	16.1	9.9	1.6	-32.2
5th	29.4	-14.5	-13.4	8.7	14.6	10.9	-12
6th	-14.1	7.1	10.6	-6.6	14.8	-3.8	-9.5
7th	4.1	6.5	14.3	15.6	0.8	-0.7	3
8th	5.7	-60.4	-24	-31.2	12.9	-20.1	-17.4
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb Blade 3, r/R=0.450	Flap Bending, in-lb Blade 3, r/R=0.400	Chord Bending, in-lb Blade 4, r/R=0.144	Flap Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
24/19	-1813.5	-366.7	-2453.2	-8577.2	-425	-41.3	
MEAN							
RMS	421.8	156.1	396.2	896.5	137.7	11.6	
1/2 P-P	831.7	232.2	721	1590	205.9	25.4	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	550.7	150.8	-80.7	198.2	-18.7	23.1	-950.1
2nd	39.7	-28.7	-40.6	10.9	-438.2	301.6	370.1
3rd	7.7	-10.4	-25.6	-4.9	-75.9	-142.1	74.1
4th	57.5	-1.7	-8.8	17.8	4.5	-0.2	-21.1
5th	56.8	46.2	2.6	1.2	13.9	20.4	-7.8
6th	28.7	0.7	3.2	-3.8	-7.4	4.5	15.9
7th	-19.1	-21.7	-3.6	1.4	1.5	-6.7	26.8
8th	8.8	21.6	-0.2	4.5	5.3	-42.4	-12.5

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb							
	Blade 1, r/R=0.144		Blade 1, r/R=0.167		Blade 1, r/R=0.215		Blade 1, r/R=0.280		Blade 1, r/R=0.325		Blade 1, r/R=0.570
MEAN	-1157.6		-401.7		-801.4		270.4		259.6		-182.1
RMS	340.9		204.3		146.3		172.5		201.3		384.4
1/2 P-P	625.2		405.3		292.9		338.1		356.4		710.5
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	SINE
1st	-276.4	20.7	-165.9	-33.2	31.9	-176.3	41.2	-208.4	60.2	-237.1	183.5
2nd	308.3	-236.9	186.1	-132.9	-52.8	35.5	-63.2	42.1	-100.8	66.8	-291.1
3rd	-15.7	4.9	-4.5	-2.1	-0.5	-2.8	0	-1.8	-4.1	4.8	-29
4th	23.6	7.5	14.8	2.1	-18.4	-5.6	-22.9	-5.9	-31.7	-5.5	-24.7
5th	-16.5	-14	-3.7	-6	15.7	18.8	18.5	20.8	18.5	23.4	3.6
6th	9.3	-2.5	6.6	-2.8	-7.7	1.2	-8	1.8	-14.2	2.3	14.1
7th	-1.1	0.2	3.8	-1.7	6.4	0	5.4	0.6	2.2	2.8	0.5
8th	11.2	12.2	4.5	-0.2	-15.7	-23.1	-17.8	-27.4	-19.4	-24.4	15.5
RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
24/20	Blade 1, r/R=0.725		Blade 1, r/R=0.800		Blade 1, r/R=0.900		Blade 1, r/R=0.900		Blade 1, r/R=0.144		Blade 1, r/R=0.570
MEAN	-493.8		-652.1		-521.1		-9083.4		-2703.9		-410.6
RMS	411.1		344.1		229.1		1056.6		458.7		136.1
1/2 P-P	825.9		723.9		613.7		1824.6		1007.6		217.9
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	SINE
1st	204.5	-348.5	157.3	-253.5	16.3	-63.8	-1378.6	-448.1	-508.3	83.9	86.9
2nd	-318.2	163.1	-256.7	117.4	-97.4	42.5	-170.8	234.5	192.3	-115.4	-43.9
3rd	-62.7	153.7	-100	185.2	-98.8	155.5	77.6	-56.5	-29.7	-15.4	16.3
4th	23.1	25.5	38	39.3	3.5	59.2	0.9	0.5	77.2	-210.7	-24.5
5th	-4.3	-53.9	-47.5	-81.2	-10.9	-57.7	49.9	18.4	-109.4	-76.8	4.1
6th	15.3	-24.1	-15.7	-40	-23.7	-44.1	3.8	2.4	-24.2	5.4	9
7th	-6.2	-14	-0.8	-12.3	-14.9	-5.4	-20.9	-39.5	13.3	41.2	0.8
8th	-20.5	-10.4	-26.4	-40.2	-5.1	-32.9	8.6	6.6	-13.2	-5	-3.2

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
24/20						
MEAN	-1236.6	-6651.5	-1218.6	-6879.9	-3537.5	-1328.1
RMS	264.9	1276	271.7	1495.1	1266.6	849.5
1/2 P-P	502.6	2083.1	491.6	2398.5	2014.9	1547.2
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	97.2	86.1	499.9	-1695.7	-155.7	70.9
2nd	-264	216.7	147.4	-258.1	268	-202.6
3rd	12	-17.4	-63.7	-59.5	3.1	4.2
4th	24.8	20.1	-20.5	21.1	23.9	20
5th	33	-31.8	-26.5	44.8	21.2	23.6
6th	-13.8	1.1	17.7	11.4	13.9	5.8
7th	2.5	5.3	-22.2	-20.5	-0.1	-3.9
8th	25.1	-12.4	8.9	9.4	9.6	20.1
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
24/20						
MEAN	-1832.5	-405.3	-1234.8	-8403.2	-473.2	-41.4
RMS	656.8	155.3	278.9	1305.4	138	13.9
1/2 P-P	1366.4	234.6	499.7	2166.2	209.2	29.5
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	855.9	-20.1	-94.9	190.6	16.7	10.5
2nd	143.4	-64.2	-41.4	9.3	-319.9	203.5
3rd	54	23.8	-17.7	-15.6	-20.6	-24.8
4th	139.3	-188.6	-18.3	6	10	34
5th	114.1	93.3	-2.4	3	6.8	55.4
6th	26.3	32.6	6.4	-0.1	16.8	-2.6
7th	-1	-9.4	-1.1	-1.5	2.6	-23.2
8th	3.1	-10	-3.2	0.4	7.8	-18.2

RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.144	Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
		SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
MEAN	-487.8	13.1		-730.8		348.7		323.5		-123.9	
RMS	385.4	231		151.9		179.2		211.1		403.9	
1/2 P-P	667.2	436.3		286.8		336.8		385.7		720.4	
HARMONIC											
1st	-370.7	74.9	-227.6	-0.3	19.3	-178.4	28.2	-211.2	46	-242.9	146.8
2nd	306.2	-226.7	184.6	-127.8	-55.9	35.2	-67.7	42.3	-107.3	66.7	-306.3
3rd	49.6	-20.9	32.3	-15.9	-19.9	0.9	-22.6	2.6	-37	13.8	151.4
4th	41.3	19.8	24.8	8.2	-21.5	-15.2	-26.7	-17.6	-39.4	-18.6	-109.9
5th	-22.5	-33.3	-5.2	-13.7	19.2	37.7	22.4	43	23.1	50	-36.2
6th	5.2	1.9	5.3	-1.4	-2.7	-3	-2.7	-3.4	-9.8	-2.8	16.9
7th	3.6	-2.2	6.2	-2.7	2.6	0.5	1.4	0.7	-3.7	4.6	4.6
8th	10.5	12.9	5.3	-1.5	-14	-28.7	-15.7	-33.2	-18.1	-29.6	9.5
											44.8
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Chord Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400	
		SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
MEAN	-473.2	-697.4		-622.5		-9006.2		-2716.9		-426.3	
RMS	446.6	408.2		282.3		1346.8		639.1		137.8	
1/2 P-P	907	867		767.6		2080.1		1566.1		229.6	
HARMONIC											
1st	155.7	-368.6	151.9	-279.2	13.6	-79.6	-1868.3	-70.7	-585.4	202.9	96.7
2nd	-333.1	133	-308.2	102	-126.7	38.4	-149.9	244.7	223.9	-135	-155.6
3rd	-158.8	197.9	-182.9	205.3	-171.9	166.7	104.6	-51.5	-75.3	-51.2	112
4th	49.8	22.6	67.8	73.5	30	86.2	-13	0.4	315.2	15	16.3
5th	-51.5	-78.1	-62	-151.2	-16.5	-101.3	72.6	50.2	-393.2	-26.4	1.9
6th	15.2	-49	-17.2	-35.9	-26.8	-45.7	-1.5	-6.6	-169.7	5.2	-6.2
7th	4.4	7.3	-6.9	-12.7	-24.5	-7	11.9	-27.2	-23.1	12.8	-1.5
8th	-38	-36.5	-22.5	-52.9	4.2	-44.2	4.9	39.4	0.6	31.3	2
										-36.2	-4.3

RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	-556	-6560.2	-524.3	-6811.7	-3457.2	-1351.9		
RMS	255.1	1610	246.3	1807.6	1533.5	1048.6		
1/2 P-P	495.5	2526.8	451	2765	2297.4	1927.9		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	39	5	182.9	-2236.3	-32.1	2518.2	201.2	199.3
2nd	-262	207.3	132.8	-290	258.9	-199.1	-131.4	2138.5
3rd	-13	-85.7	-62.9	-87.6	-71	24.2	-90.5	-81.5
4th	40.8	32.6	-46.3	35.6	39.1	34.5	-15.6	214.9
5th	50.3	-41.2	-50.1	74.5	27.3	41.9	-82.5	104.7
6th	-8.4	-2.2	13.1	13.5	5.4	10	-14.1	-69.6
7th	2.7	3.8	12.3	-14	-6.6	-0.3	34	70.2
8th	26.3	-9.1	6.8	33.2	9.3	21.6	19.1	-69.6
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Pitch Link, lb
	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1
MEAN	-1879.1	-419.9	0	-8349.2	-493.6	-349.6		
RMS	855.4	155.8	0	1625.3	139.7	135.5		
1/2 P-P	1814.4	244.3	0	2481.2	222.8	30.8		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	996.4	-181.8	-104.5	184.4	0	0	-309.8	2244.6
2nd	173.5	-74.2	-45.4	12	0	0	193	-240.3
3rd	90.1	76	-17.8	-15.7	0	0	56.2	46.9
4th	338	-410.3	-23	3.1	0	0	-18.2	107.1
5th	191.1	187	-5.5	4.4	0	0	43.9	-35.5
6th	6.7	45.9	6.9	0.2	0	0	-6.3	-26.9
7th	-18.8	-16	0.9	-1.8	0	0	26.1	-16.8
8th	2.4	-16.9	-3.8	0.6	0	0	4.3	39.2

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
MEAN	84.6	368.9	-672.4	412.7	375.9	-69.8							
RMS	452.8	274.3	154.7	182.8	219.2	432.9							
1/2 P-P	749.4	482	290.8	347.8	398.4	791.7							
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-537.8	93.7	-333.1	12.7	0.8	-185	8.3	-219.3	29.2	-255.2	121.9	-431.9	
2nd	228.9	-197.4	137.4	-110.5	-63	37.6	-75.7	45	-111.5	66.7	-318.3	143.6	
3rd	99.9	-71.8	60.3	-43.5	-37.1	11.4	-43.5	15.8	-63.1	32.7	-172	125.9	
4th	42.9	25	25.6	8.5	-19.4	-24.5	-23.7	-28.7	-36.5	-31.7	-41.7	22.9	
5th	-12.7	-16.3	-1	-7.2	12.9	21.2	15.6	23.3	13.7	27.8	10.1	20.2	
6th	6.7	3.3	5.3	-1.4	-6	-5.5	-6.4	-5.5	-14.5	-4.8	17	14.1	
7th	-1	-2	1.5	-3.2	-1.1	0.4	-2.6	1.2	-6	4.4	6.5	8.5	
8th	21.3	0.5	8.6	-3	-27.9	-11	-32.2	-13.3	-33.7	-9.5	30.1	30.9	
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725		Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Chord Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400		
MEAN	-463.4	-740.3	-711.9	-8800.2	-2716.6	-442.9							
RMS	484.4	455	311.4	1652.9	839.3	141.8							
1/2 P-P	975.8	904.3	894.7	2490.5	1864.4	235							
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	129.4	-396.9	148.6	-302	10.4	-87	-2233.4	596.2	-634.6	383	108.3	-153	
2nd	-373.9	110.8	-379.3	90.7	-183.5	38.6	-3.5	242.4	293.2	-164.4	-54.8	17.5	
3rd	-203.6	243.3	-213	232.6	-199.8	177	134.5	-40.7	-159.6	-67.2	13.8	21.1	
4th	47.9	44	74.9	114.7	43	118.9	-28.8	9.4	379.1	-677.4	-23.2	-2.3	
5th	-30.3	-33.9	-39.1	-123.1	8.9	-90.4	84.9	31.4	-189.6	-120.9	12.4	-6.9	
6th	22.5	-64.6	-12.9	-38.9	-31.4	-51.6	19.9	-12.8	-46.9	36.4	8.8	-2.1	
7th	1.6	13.4	-6.4	-15	-24.4	-2.2	-37.6	-5.9	42.3	15.5	-4.8	4.1	
8th	-52.3	-36.8	-47	-35.5	-15.6	-23.1	52.1	50	52.1	-45.5	-6.1	-2.1	

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	24/22	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	21.8		-6352.6		71.5		-6619.9		-3262.4	
RMS	249.9		1913		243.9		2101.5		1790.6	
1/2 P-P	493.7		2889.8		437.5		3132.3		2660.3	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	20.1	-165.6	-411.9	-2647.4	167.6	-12	2912.5	-451.8	2487.2	-350.5
2nd	-179.4	179.5	-3.8	-289.4	173.5	-175.9	29.7	288.1	51.4	220.1
3rd	-71.7	-136.7	-58.8	-114.2	-125.6	80.8	-119.6	58.8	-87.2	55.9
4th	42.4	38.5	-50.9	47.2	47.1	37.5	11.4	-36.5	54.4	-107.9
5th	33.2	-28.3	-30.1	71.1	15.4	12.7	-77.9	-7.8	-38.2	2.4
6th	-10.6	-2.8	7.4	5.5	7.2	12.7	-2.6	-22.1	-5.9	-6.7
7th	-1.3	4	-37.1	21.7	-4.1	2.4	-14.1	26.1	-17.8	15.5
8th	44.9	-2.9	54.8	30.5	24.8	27.8	74.6	40.3	66.4	37.6
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
24/22	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 4, r/R=0.400	Pitch Link, lb	
MEAN	-1882.8		-436.2		0		-8174.8		-514.1	
RMS	1030.7		159.2		0		1907.8		143.4	
1/2 P-P	2258.5		249		0		2814.3		233.7	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	1102.8	-445.7	-117	181.1	0	0	295.6	2657.8	-152.1	-118.8
2nd	265	-100.6	-45.3	18.6	0	0	49.5	-251.2	49.8	-10.2
3rd	163	81.9	-18	-20.5	0	0	49.9	134.7	-10.7	4.3
4th	265	-656.5	-24.1	0.7	0	0	-8.8	-35.8	-27.1	-6
5th	198	99.7	-10.5	4.6	0	0	31.7	-87.9	-7.7	-7
6th	-6.5	63.4	5.8	0.1	0	0	-0.8	27.4	-7.2	1.2
7th	9	-37.3	5.5	-3	0	0	-10.9	2.4	-4.2	-3.2
8th	-10.7	-25.9	-6.2	-0.1	0	0	54.4	56.7	-6.9	1.5

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
		Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325
MEAN		1385.9	1178.5	-536.8	562.2	497.6	56.7				
RMS		347.4	220.2	186.8	219.6	259.9	515.1				
1/2 P-P		661.8	422.7	401.1	461.8	505.5	970.6				
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-335	-75.7	-216.9	-82.8	11.1	-213.4	21	-251.9	33	-288.7	96.7
2nd	70.8	-182.3	41.8	-103.9	-73.1	36.6	-86.2	44.3	-117.1	61.2	-338.6
3rd	238.1	-139.4	137.5	-79.8	-78.8	23	-91.7	29.6	-130.9	53.6	-341.1
4th	55.2	38	33.5	12	-18.3	-40.6	-22.1	-47.7	-38.4	-54.5	-65
5th	8	-20.6	6.3	-10.1	-11.8	17.7	-11.8	20.3	-19.2	24.4	16.8
6th	19.2	2.6	10.6	-2.2	-18.1	-11.2	-20.8	-13	-31.4	-11.3	24.7
7th	13	0.6	8.5	-1.6	-13.1	-5.6	-17.1	-5.9	-21.8	-1.2	12.9
8th	23.8	0.7	8.9	0.4	-32.8	-5.6	-37.9	-6.8	-40.9	-6.5	40.2
RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
		Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.400		
MEAN		-451.1	-826.2	-902.2	-8163.7	-2679.1	-461.1				
RMS		600.4	584.8	415.9	3788	1697.6	156.1				
1/2 P-P		1211.4	1223.7	1222.4	5616.8	3748.6	266.6				
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	119.3	-463.4	144.6	-355.7	-9.7	-117.1	-4694.1	2507.7	-1046	886.8	144.2
2nd	-483	59.3	-518.3	36.7	-302	10.8	306.2	391.7	475.2	-165.1	-46.2
3rd	-343.1	297.9	-352.5	281.2	-318.6	196.5	264.2	-29.1	-336.4	-208.1	21.3
4th	23.3	82.7	72.8	152.4	40.5	150.2	-46.8	46	931.7	-1558.9	1.3
5th	30.2	-37.7	22.9	-127.5	64.4	-89.4	80.8	43.1	-214.6	-197.7	-11.5
6th	50.4	-48.9	4	-34.8	-27.1	-63.4	-2.7	2.2	-43.7	37.8	0.3
7th	-2.2	-8.8	-12.6	-10.7	-47.5	9.1	-26.1	-35.9	40.2	43.9	-3.4
8th	-53	-29.3	-64.8	-39.7	-33.9	-13.3	79.4	32.9	-65.2	-39.3	2

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
24/23						
MEAN	1329.9	-5787.8	1417.1	-6051.5	-2730.4	-1197
RMS	308.8	3868.1	278.3	4080.4	3452.5	2343.1
1/2 P-P	647.1	5668.4	556.9	5976.2	5122.8	4519.1
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	201.8	101.8	-2087.4	-5014.6	-37.2	126.7
2nd	-34.2	162.4	-286.5	-444.9	8.2	-166.6
3rd	-152.3	-278.2	-75.2	-260.3	-274.3	156.8
4th	55.9	43.2	-73.9	121.6	61.6	44.2
5th	40.6	-8.5	-32	89.3	-6.4	7.5
6th	-21.2	-1	14.1	3.8	13	11.7
7th	-1.4	-6.8	-8.9	-9.6	-16.3	-1.8
8th	42.6	-2.4	87	10.2	18.3	22.3
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
24/23						
MEAN	-1888.1	-455.2	0	-7624.6	-545	-33.3
RMS	1957.1	171.5	0	3974.6	155.6	14.4
1/2 P-P	4104.4	260.2	0	5821.7	261.6	29.7
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	1774.7	-1169.7	-155.5	168.7	0	2106.2
2nd	444.4	-67.9	-35.8	42.7	0	-240.7
3rd	291.9	253.7	-25.8	-34.3	0	52.4
4th	632.5	-1489.3	-5.7	0	0	17.3
5th	238.8	186.1	-24.8	5.8	0	38.8
6th	-41.8	81.5	0.2	0.9	0	-11.7
7th	-9.7	-33	12.2	-2.1	0	-12.3
8th	3.3	-19.4	-7.7	0.4	0	76.3

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
28/28													
MEAN	-751.5		-153		190.1		308.9		294.1		-156.9		
RMS	397.8		252.7		148.1		191.1		218.3		412.8		
1/2 P-P	759.9		491.8		307.3		373.3		407		734.2		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-324.3	-225.9	-195.2	-181.1	-34.3	-179.5	40.2	-236.3	57.6	-259.7	166.2	-410.3	
2nd	303.9	-247.1	183.1	-138.9	38.8	-31	-68.2	42.9	-107.4	67.4	-310.7	156	
3rd	42.1	-25.2	28.5	-18.5	9	-10.6	-17.9	2.6	-32.1	13.4	-96.5	88.9	
4th	35.8	22.1	22.2	9.6	3.6	-7.2	-22.3	-17.4	-35.1	-18.4	-33.9	17.9	
5th	-10.9	-9.6	-0.4	-4.3	10.7	4.6	13.6	15.3	11.6	18	2.3	16.2	
6th	7.3	1.7	5.7	-1.5	2.9	-4.2	-5.4	-3.1	-11.9	-3.6	10.9	14.4	
7th	-0.8	2.7	4.1	-0.5	10.8	-3.5	9.9	-4.2	5.4	-2.3	-8.6	6.7	
8th	12.4	10.5	6	-0.8	-5.3	-17	-17.7	-25.7	-20.2	-21.2	15	37.6	
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725		Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Chord Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400		
28/28													
MEAN	-475.6	-681		-600.7		-8418.1		-2676.5		-426.9			
RMS	447.3	391.5		264.8		1448.6		635.3		141.5			
1/2 P-P	918.6	802.1		671.6		2207.4		1521.3		229.9			
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	195.7	-381.5	155.7	-279	12.8	-72.5	-1959.1	449.5	-608.2	304.3	101	-158.7	
2nd	-356.5	151.8	-307.5	103.8	-129.5	36.2	-118.4	308.4	232	-115.1	-53.6	14.9	
3rd	-121.1	173	-161.3	201.7	-150.3	160.5	100.1	-46.2	-75	-23.5	15.5	15.4	
4th	31.4	51.6	61.2	79.4	24.6	92.2	-8.4	5.5	189.2	-398	-27.8	2	
5th	-20.3	-47	-25.5	-82.1	10.1	-57.3	61.5	36.6	-136.8	-123.4	4.7	-5.1	
6th	22.7	-22.2	-8.8	-40.3	-19.8	-50.3	9	-11.3	-30	24.1	8.3	-1.4	
7th	-4.3	-20.7	7.6	-22.2	-6.9	-17.6	-34.8	-28.1	30.2	35.5	1.2	2.7	
8th	-20.3	-10.8	-27.3	-45.3	-4.4	-36.2	9.8	32.6	-16.1	-26.7	-3.6	0.5	

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
28/28	-792	-6013.2	-734.7	-6379.4	-3118.9	-1367.2
MEAN	354.7	1675	344.6	1858.6	1573.1	1074.5
RMS	687.4	2592.3	674.2	2832.9	2348.2	1905.4
1/2 P-P						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	347.2	46.7	-312.5	-85.2	322	2576.4
2nd	-252.9	228.6	106.9	-340.1	257.3	-224.3
3rd	-17.7	-74.2	-53.9	-82.5	-62.4	27.2
4th	32.7	34	-43.1	23.1	33.8	30.9
5th	41.4	-18.1	-37.9	44.8	4.9	19.3
6th	-14	0.9	13.2	14	12.7	8.9
7th	4.1	9.3	-32.2	-4.2	-3.6	-5.9
8th	30.4	-1.2	13.2	24.3	5.3	30.2
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
28/28	-1863.3	-418	-633.5	-7824.8	-489.1	-41.8
MEAN	835.5	159.5	341.7	1685.5	142.7	16.1
RMS	1705.4	251.8	663	2579	234.7	33
1/2 P-P						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	1018.4	-346	-110.3	186.3	-264.5	67.6
2nd	189.8	-60	-47.6	15.4	-300.5	244.3
3rd	91.4	51.9	-17.1	-13.7	31.9	41.1
4th	197.1	-306.6	-26.8	6.3	33.5	27.6
5th	112.7	126.4	-4.4	3.9	-11.1	34.4
6th	9.1	42.2	9.8	-1.9	-5.2	3.7
7th	4.2	-33.4	-1.6	-2.6	-4.4	-7.1
8th	4.9	-16.6	-3.9	1.7	24.1	11.4

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	22/17	Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325
MEAN	-409.4	74.1	-670.8	409	399.8	-15.8					
RMS	432.8	254.2	171.6	202.7	239.2	421.3					
1/2 P-P	743.9	435.2	425.7	498.9	549.5	856.9					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-501.3	146.3	-307.6	45.8	8.5	-180.5	16.7	-214.7	34.9	-253.8	119.5
2nd	86.6	-201.6	59	-113.3	-32.6	41.5	-40.8	50.3	-61.6	69.5	-219.4
3rd	135.6	-142.3	80.5	-80.7	-41.1	23	-50.1	29.4	-75.1	54.3	-186.5
4th	53.3	12	31.5	1.3	-18.5	-19.3	-21.7	-22.3	-35.7	-21.5	-40.8
5th	-30.7	-69.9	-9.2	-26.7	22.9	72.2	27.6	83.2	33	103.4	11
6th	26.5	-19.4	11.7	-10.4	-25.7	8.7	-30.4	12.1	-37.3	16	24
7th	-2.9	-1.5	4.9	-3.6	17.6	-4	18.5	-5.5	13.8	0.3	-20.6
8th	4.1	-63.4	-6.5	-12.2	-35.8	100.5	-39.1	116.4	-28	116.2	85.6
RUN/POINT	Flap Bending, in-lb	Flap Bending, in-lb	Flap Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb				
	22/17	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.400				
MEAN	-402.8	-686.6	-671.7	-686.9	-2594.7	-457.4					
RMS	491.3	493.5	336.8	1277.6	877.1	148.5					
1/2 P-P	999.7	1049.2	797.6	2254.3	2045.7	262.2					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	130.2	-409	126.8	-301.3	1.6	-88.4	-1617.7	651.1	-493.8	424.4	116.5
2nd	-334.1	144.2	-334.7	94.6	-170.4	32.8	113	238.4	219.4	-115.9	-56.9
3rd	-151.8	296	-170.7	327.3	-166.2	238.3	113.8	-45.7	-219.3	-6.9	-22.2
4th	11.1	31.5	67.5	58.3	44.9	75.8	-36.5	47.2	306.7	-795.9	0
5th	-33.9	-194.8	-46.2	-269.5	26.8	-190.1	107	109.4	-235.1	-286.5	-2.3
6th	66.2	-34.2	18.7	-25.9	-29.2	-32.8	-15.5	-2	11.1	5.3	5
7th	-2.7	-10	14	0.1	-24.9	10.8	-25.8	-19.4	18.9	27.1	0.1
8th	-35.8	44.3	-66.4	167.4	-43.5	195.5	-228.4	-191.2	229.3	171.4	-6.2

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
22/17						
MEAN	-459	-4428.7	-400.9	-5081.3	-2024.9	-855
RMS	242.1	1584.8	230.4	1755.7	1494.8	1108.6
1/2 P-P	549.7	2612.6	522.6	2946.2	2485	2185.4
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-18	-129.4	-544.8	-2120.2	103.7	-34.3
2nd	-37.3	171.1	-129.3	-267.4	36.5	-176.7
3rd	-152.9	-165.7	-68.6	-106.5	-158.4	147
4th	52.8	18.5	-24	70.9	55	24
5th	70.9	-37.9	-68.9	113.4	45.7	62.8
6th	-30	16.9	39.1	11.4	29	-12.9
7th	-4	5.9	-12.1	-2.6	-0.8	0.3
8th	-1.9	-82.1	-231.1	-163.1	-7.1	-54.9
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
22/17						
MEAN	-1695.2	-447.4	0	-6316.6	-520.2	-78.9
RMS	1008.7	164.8	0	1534.8	153.7	13
1/2 P-P	2302.3	276.1	0	2532.3	261.9	31.1
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	896.1	-512.7	-123.1	186.3	0	411.6
2nd	201.7	-43.4	-45.2	39.8	0	-71.1
3rd	199.6	46.4	21.5	2.8	0	53
4th	142.1	-787.9	-3.3	14.1	0	-2.7
5th	326.6	281	1.1	2.2	0	90
6th	43.5	18.2	1.3	-0.4	0	22.9
7th	1.3	-10.1	0.6	-0.1	0	-22.8
8th	99.9	67.1	-1.8	6.6	0	-221.6

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.370	Blade 1, r/R=0.570	Blade 1, r/R=0.570
MEAN	-3561.7	-1865.9	-481.3	134.9	133	-285.3		
RMS	500.7	292.4	105.8	143	184	373.4		
1/2 P-P	920.6	536.3	204.4	296.6	390	739.8		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-480.4	23.4	-281	-25.5	-76.5	-92	37.3	-190.6
2nd	303	-349.7	190.6	-197.8	62.4	-43.6	-17.3	53.7
3rd	-199	86.5	-108.3	41.2	-5.8	1.1	63.3	-22.8
4th	-4.9	-25.9	-0.4	-14.6	2.5	-1.2	0.3	13.3
5th	-3.3	45.6	2.1	16.8	13.2	-17.8	19.8	-46.8
6th	-8.4	-11	0.1	-5	11.2	4.4	18.2	13.9
7th	-0.7	-6.1	2.1	-2.9	5.1	2.6	5.8	8
8th	10.1	-16.5	4	-4.8	-7.7	9	-18.2	22.7
RUN/POINT	Flap Bending, in-lb	Flap Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Torsion, in-lb
34/15	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.400	Blade 1, r/R=0.400
MEAN	-400.1	-415.8	-163.2	-8493.3	-2572.7	-367.6		
RMS	374.3	298.4	165.4	593.8	205.9	147		
1/2 P-P	711.1	585.7	435.6	1168.8	573	222.4		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	257.2	-310.3	171.4	-237.1	42.1	-62.1	493.8	-583.2
2nd	-128	261.4	-40.9	204.9	32.1	65.6	-181.1	214.2
3rd	99.7	95.1	58.4	148	56.4	140.6	33	-62.5
4th	-7.8	-7	-35	-23.2	-63.1	9.6	2.1	-7.8
5th	-48.2	93	-41.4	107.9	-35.4	57.7	9.9	-86.2
6th	-4.7	-33.3	-8.1	-31.9	16.6	-19.1	-5.3	14.4
7th	11.7	-3.6	14.8	6.4	2.2	23.9	15	-18.3
8th	-4	6.6	-25.5	43.1	-33.5	43.8	-0.8	-13.2

RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174
MEAN	-3665.4	-6200.2	-3652.3	-6506.8	-3358.4	-1226.9	
RMS	365.8	483.1	359.5	567.1	471.3	262.1	
1/2 P-P	714.7	1015	729.2	1115.3	874.4	580.4	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	SINE
1st	101.7	-143.5	569.9	162.2	19.2	70.7	74.7
2nd	-255.1	347.6	158.9	-230	270.2	-351.1	592.9
3rd	98.3	179	-60	-8.7	195.4	-86.9	691.4
4th	1.4	-24.5	23.5	29.5	7.3	-25.6	276.1
5th	-34.1	0.8	44	-8.3	1.3	-59.1	-130.9
6th	10.6	12.2	0	-1.9	-13.6	-11.3	205.6
7th	-2.5	2.3	15.9	-16.7	-3.7	3.5	-12.4
8th	-2.1	-35.2	-5.2	-18.5	5.1	-10.4	48.4
							-40.1
							81.8
							-11.5
							-99.9
							-113.1
							-8.5
							-17.3
							-14.5
							-3.3
							-17.5
							-13.3
							-10.1
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Pitch Link, lb
	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1
MEAN	-1673.3	-362	-3437.2	-7873.9	-412.5	-59.2	
RMS	261.3	167.9	437.1	586.7	150.7	15.7	
1/2 P-P	620.1	245.3	871.6	1190.6	230	30.6	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	SINE
1st	205.3	93.3	-76	220.4	26.1	314	73
2nd	15.7	7.2	-8.4	40.6	-302.9	356.2	-220.7
3rd	10	-44.7	-12.7	-2	-90.9	-212.3	63.9
4th	-36.3	-128.8	0.4	7.1	3.8	-22.3	38.9
5th	-8.6	-212.2	-0.2	-0.7	63.5	-3.7	-12.4
6th	-18.4	-21.6	1.7	-1.4	9	11.9	-7.3
7th	-19.8	10.2	-1.8	0	5.2	1.2	4.1
8th	2.3	13.8	0.6	2.2	9.7	-21.1	3.2
						-2.7	3.4
						1.4	-0.4
						-1.8	0.7
						2.7	1.1
						0.1	-0.1
						2.8	0.2
						0.1	-0.3
						3.4	-1.2

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
34/16													
MEAN	-2281.4		-1069		-151.7		274.6		240.4		-188.2		
RMS	421.6		258.9		132		167.7		200.4		379.7		
1/2 P-P	812.9		478.1		230.8		322.1		390.1		738.4		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-437.4	-160.8	-258.3	-141.8	-65.7	-156.4	32.6	-206.8	62.9	-240.4	206.3	-386.	
2nd	190.8	-305.9	122.7	-173.7	35.4	-36.2	-26.7	51.3	-53.9	82	-200.4	206.	
3rd	-64.9	13.6	-32.7	2.5	1.9	-6.7	21.6	-8.8	27.7	-5.1	45.2	54.	
4th	9.9	-21.9	8	-13.8	3.4	-5.6	-6.2	8.3	-14.8	14.4	-17.3	35.	
5th	0.3	28.4	3.2	9.9	10	-10.8	10.9	-26.9	6.4	-31.3	-5.9	7.	
6th	4.1	-14.8	5.5	-6.4	6.6	5.3	4.1	17.9	1.3	21.8	1	-11.	
7th	-2.2	-12.5	2.5	-6.7	7.2	3.7	8.9	13.2	5	16.7	-3.7	-15.	
8th	-13.2	-31.1	-1.9	-5.4	10	31.3	17.1	60.7	16.7	58.8	-0.3	-74.	
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725		Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Chord Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400		
34/16													
MEAN	-429.8		-547		-380.4		-7920.9		-2545.3		-418.9		
RMS	399.4		329.3		182.2		302.3		375.7		150.9		
1/2 P-P	674.1		651.5		544.7		753.7		1013		239.8		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	217.1	-380.3	161.2	-285.6	27.8	-69.6	-275.9	-33.3	-281	203.3	87.5	-188.	
2nd	-212.4	241.8	-160.3	192.3	-51.6	68.1	-62.4	256.7	120	-99.9	-25.7	37.8	
3rd	11.6	128.5	-19.7	170.3	-18.3	143.6	35.6	-50.7	-15.4	49.4	-3.5	12.	
4th	-4.9	11.8	-6.4	14.5	-34.1	51.4	7.7	13	32.4	-303.4	-4.1	-4.8	
5th	-12.1	35	-7.5	16.7	6.7	-14	15.8	-32.5	-36.8	57.7	4.4	2.	
6th	19.2	-39.4	10	-29.5	12.6	-26.8	-2.2	18.2	-1.2	-28.3	2.1	-0.7	
7th	3.4	-12.3	12	11.5	-5.3	40.1	4.5	-32.2	-2.8	32.6	0.8	0	
8th	1	26.7		22.8	90.9	31.2	102.7	-83.4	-34.1	84.1	26.3	0.5	

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
MEAN	-2360.5	-5724.4	-2335	-5902	-2779.8	-1022.4
RMS	323.1	545.1	306.4	722.3	615.5	494.2
1/2 P-P	586.3	1104.6	578.2	1342.1	1102.6	966
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	305.6	-79.4	35.6	-694.3	0	267.9
2nd	-134.6	290	41	-274.3	153.6	-292.6
3rd	10.7	36.7	-50.7	-18.3	48.9	-2.3
4th	16.4	-20.7	5	49.1	18.8	-15.8
5th	-10.9	2.5	16	0.5	-4.3	-28.2
6th	-3	12.5	15.7	3.7	0.4	-13.4
7th	-8.3	5.1	-0.3	-31.4	0.4	10.1
8th	-33.7	-47	-85.4	-23.7	-24.4	-32.5
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
MEAN	-1619.5	-409.9	-2160.1	-7310.3	-470.6	-60.3
RMS	460.1	170.7	342.6	483.4	154.3	18.6
1/2 P-P	990.6	267.1	681.8	981.9	245.3	34.4
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	488	-172.6	-94.3	217.1	-179.8	242.1
2nd	74.4	-14.9	-20.2	40.3	-191.8	309.6
3rd	34.2	-25.8	4.8	-9.3	-4.8	-71.7
4th	61.1	-346.6	-1.4	0.7	16.6	-18.4
5th	-4.3	-64.3	-4.4	-0.5	40.5	-8
6th	-3.3	0.3	1.3	0	-1.5	17.7
7th	-8	7.3	-0.2	-0.6	11.1	-3.7
8th	46.6	15.6	1.2	3.9	-24.5	-39.4

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
MEAN	-1056.8		-311.6		159.4		411.2		348.8		-83		
RMS	304.1		174.2		91.9		171.7		207.3		379.6		
1/2 P-P	523		326.7		211.2		410.1		437.7		714.9		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE		
1st	-304.2	128.3	-184.7	34.1	-33.4	-93	33.7	-197.7	56.3	-243.4	154		
2nd	95.2	-234.3	65.3	-132.5	13.3	-23.2	-30	47.9	-52.4	73	-194.6		
3rd	45.7	-51.9	29.6	-32.2	6.5	-14.1	-13.8	5.3	-24.9	18.9	-81.6		
4th	33.6	2.3	20.5	-2.1	5.9	-10.9	-13	-10	-25.2	-7.3	-32		
5th	-39	-7.8	-12.8	-3.4	19.6	5.2	44.5	15.2	48.7	20.2	19		
6th	11.7	-19	6.7	-9.3	-1.4	3.6	-10.8	17.9	-14.4	23.9	1.1		
7th	-0.9	-2.7	4.3	-2.9	10.5	-1.7	12.9	1.9	8.3	5.6	-4.5		
8th	-6.2	-47.9	-4.5	-10.3	-6.4	43.8	-8.4	86	-4.8	85.9	-3.9		
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725		Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Chord Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400		
MEAN	-422.6		-646.3		-568.9		-7177.6		-2472.1		-451.7		
RMS	427.5		396.3		254.5		995.3		619.2		150.1		
1/2 P-P	781		795.3		639.2		1801.9		1505.6		266.6		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE		
1st	167	-396.6	141.6	-294.9	9.6	-79.7	-1349.9	66.1	-467.6	280.6	107.6		
2nd	-271.4	178.3	-255.7	129.4	-123.3	47.2	69.2	251.4	175.9	-107.7	-44.2		
3rd	-82.2	223.5	-111.2	262.3	-107.3	201.3	68.6	-63.8	-94.6	-1.7	-15		
4th	6.5	18.2	37.6	35.8	11.8	60.5	-9.7	30.2	216.4	-504.6	-0.6		
5th	-71.3	-51.7	-85.4	-90.2	-24.1	-71.3	84.4	28.3	-193.9	-90.2	-3.9		
6th	41.7	-39.6	13.5	-29.4	-7.3	-28.8	-7.8	0.6	7.3	-6	1.3		
7th	1.9	-10.3	14.6	5.8	-12.7	24.9	-15.6	10.1	12.7	-4.6	2.1		
8th	-16.3	34.2	-20.4	126.1	-5.1	145.4	-177.4	-105.7	179.8	100.7	3.8		

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
34/17								
MEAN	-1143.6	-4904.9	-1093.6	-5269.2	-2221.7	-844.5		
RMS	189.5	1307.5	198.7	1503.5	1269.5	909.7		
1/2 P-P	401.7	2210	391.8	2445.1	2041.4	1692.1		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	24.4	95.8	-19.1	-1805.8	-135.3	1	2085.1	-5.9
2nd	-31.4	197.2	-82.4	-270	43.4	-203.2	86.8	280.3
3rd	-64.8	-82.7	-65.1	-54.3	-73.7	65.7	-46	72.9
4th	39	9.2	-24.3	48.4	42.8	12.6	-3.6	-22.5
5th	29.3	-46.4	-14.9	77.3	40.6	7.5	-59.7	-27.6
6th	-14.7	20.2	15.3	-5.7	17.4	-19.2	-9.5	4.9
7th	-4.9	5.8	-3.8	19.6	-4.3	2.1	-3	31.4
8th	-18.5	-65.9	-174.5	-87	-16	-40.6	-193.5	-95.3
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Flap Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1	
34/17								
MEAN	-1560.8	-444.1	-947.7	-6597	-511.2	-56.9		
RMS	755.2	168.2	213.8	1228.8	153.8	15.2		
1/2 P-P	1619.9	275	403.5	2053	252.5	30.6		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	831	-275.2	-114.3	201.3	105.2	76.3	-149.7	1690.4
2nd	138.3	-31.3	-33.2	38.4	-97.7	224.3	-18	-238.8
3rd	104.5	25	16.6	-2.6	64.3	38.5	67.1	69.4
4th	204.7	-478.7	2	-0.4	37	2.5	-9.4	-24.4
5th	189.3	86.9	0.3	-4.3	11.1	34.1	-6.7	-77.7
6th	10	-6.7	0.6	-1.7	-14.9	20.5	15.9	-6.5
7th	-5.7	-19.4	-0.7	0.5	6.9	-2.8	-12.4	14.4
8th	77.5	36.9	0.6	4.2	-23.8	-60.5	-172.6	-98.7

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570		
MEAN	-368	1154	335.8	488.4	410.6	-10.4								
RMS	370.8	221	113.3	190.3	231.6	416.9								
1/2 P-P	687.5	399.6	272	462.4	507.4	816.7								
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	
1st	-435.4	72.5	-267.6	0.5	-66	-116	17.1	-219	41.9	-268.1	128.7	-455.4		
2nd	34.9	-203.6	28.9	-115.3	-0.5	-16.6	-32.4	49.7	-51.7	73.5	-201.3	150.7		
3rd	130.9	-89.7	77.1	-52	9.4	-18.5	-43.2	11.3	-67.7	30.3	-171.3	130.7		
4th	54.2	5.9	32.5	-1.4	8	-15.9	-18.6	-18.9	-34.2	-17.6	-42.4	17.6		
5th	-33.1	-47.1	-10.1	-18.3	14.6	19.4	33.1	56.2	37.4	71.6	10.8	1.8		
6th	20.3	-21.6	9.5	-10.5	-6.3	2.7	-22.2	17.4	-27	24	18.4	-0.7		
7th	-4.6	-3.6	4	-4.7	14	-4.3	18.2	-1	15.4	3.5	-21.9	-2.3		
8th	-2.1	-48.9	-6.6	-9.2	-16.1	47.4	-23.2	90.5	-16.8	90.7	59.7	-103.3		
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Chord Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400				
MEAN	-413.1	-688.4	-665.9	-6780.2	-2447	-467.8								
RMS	488.4	475.3	309.8	1469.2	960.1	154.1								
1/2 P-P	968.5	946.9	751.9	2676.3	2260.6	259								
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	
1st	142.8	-449.2	135.7	-336.6	3.7	-97.2	-1782.3	944.2	-536.2	523.2	118.9	-168.5		
2nd	-328	159.6	-336.9	113.6	-183.7	45.7	186.2	264	227.7	-123.3	-51.3	39.9		
3rd	-143.5	251.4	-167.7	286.5	-160.1	211.4	97.2	-51.1	-174.6	-41.3	-19.8	-3.3		
4th	15	27.5	67.9	53	40.8	72.6	-38.7	54.1	489.8	-845.4	-2	9.2		
5th	-46.4	-145.3	-63.5	-208.2	4.9	-147.1	105	91.5	-233	-257.8	-4.2	-3.9		
6th	62.4	-43.4	27.1	-35.6	-11.5	-39.7	-14.2	-0.1	10.6	-6.8	4.2	-3.5		
7th	-2.7	-13.2	17	3.3	-18.2	19.6	-15.6	-16.3	12	21.2	2.3	0.7		
8th	-27.6	36	-40.2	133.6	-16.1	160.7	-239.5	-140.1	243.1	131.4	-0.4	2.9		

RUN/POINT		Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		
		Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.174	
MEAN	-445.1	-4468.1	-4468.1	-379.8	-4866.8	-4866.8	-1859.5	-1859.5	-731.9	-731.9	-731.9	
RMS	214.1	1776.3	1776.3	204.6	1939.9	1939.9	1647.3	1647.3	1217.8	1217.8	1217.8	
1/2 P-P	477	2947.5	2947.5	477.9	3240.7	3240.7	2810.9	2810.9	2409.1	2409.1	2409.1	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	
1st	74.6	-29.9	-795.6	-2327.7	31.7	46.9	2558.4	-834.3	2181.6	-677	1408.6	-644.3
2nd	18.1	163.9	-193.9	-297.4	-11.2	-176.5	215.3	307.6	186	244.2	192.3	59.5
3rd	-108.3	-170.3	-67.4	-88.3	-158.2	104.7	-81.7	67.4	-53.1	63.4	72.7	71.3
4th	53.8	12.2	-49.4	73.5	62.6	16.3	14.6	-14.5	71.3	-111.8	290.9	-590.3
5th	68.6	-43.1	-61.3	107.1	39.7	35.7	-102.2	-68.8	-46.1	-31.9	152.7	146.2
6th	-23.2	20	39.1	2.6	22.4	-16.9	-24	-6.8	-16.8	-5.7	1.9	10.2
7th	-6.5	8.5	-10.7	-0.4	0.3	1.5	-10.5	1.9	-14.6	-6.5	-14	-28
8th	-11.3	-62.2	-239.1	-108.8	-18.6	-45.8	-265.1	-121.9	-221.8	-125.5	-117.4	-65.9
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
		Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 4, r/R=0.400	Blade 4, r/R=0.400	Blade 1	Blade 1
MEAN	-1526.5	-460.7	-256.2	-6216.1	-6216.1	-6216.1	-531	-531	-53.3	-53.3		
RMS	1074.8	171.3	248.9	1671.4	1671.4	1671.4	158.8	158.8	14.9	14.9		
1/2 P-P	2380.5	282.7	549.2	2823	2823	2823	264.9	264.9	29.5	29.5		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	959.4	-604.9	-125.6	197.2	53.6	201.2	665.5	2218.6	-170.5	-132.2	11.1	-12.6
2nd	205.1	-35.5	-38.9	43	-45.1	192.6	-131.9	-259.7	46.8	-30.3	-10	5.4
3rd	155.4	75.2	21.3	2.7	101.5	130.9	62.7	101.1	9.3	-21.7	-2.5	-1.4
4th	340.4	-820.4	1.4	5.9	55.7	7.7	-12.1	-5.7	1.1	5.8	-0.7	0.1
5th	272	229.6	1.4	0.5	-32.5	31.1	54.4	-102.5	0	-1	-2.2	0.4
6th	22.7	12.7	1.9	-2.7	-20.6	22	16.6	13.4	-3.6	1.6	0	0.1
7th	-6.8	-12.2	-1.5	-0.7	7.4	-6.9	-14.4	-9.1	-2	-1.4	-1.1	-0.2
8th	104.4	42.8	0.6	5.7	-15.7	-66.5	-238.2	-132.2	-1.1	7.5	-0.4	-0.5

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
MEAN	201.6	470.2	483.7	559.3	467.9	54.8							
RMS	372.2	223.1	130.2	222.3	270.5	465.5							
1/2 P-P	739.8	413.1	303.8	544.6	602.2	952							
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-394.4	-29.4	-243.4	-60.7	-51.9	-147.6	21.2	-237.4	41.8	-286	111.6	-493.5	
2nd	48	-204.6	36.4	-114.9	0.5	-16	-34.7	51.2	-56.4	74.7	-214.1	155.7	
3rd	191.1	-131.6	110.5	-74	10.7	-21.8	-64.8	23	-100.4	48.3	-245.6	173	
4th	58.6	12.3	34.4	0.5	6.9	-18.9	-22.6	-26.3	-39.2	-25.9	-47.4	16.7	
5th	-49.1	-99.6	-16.3	-37.7	16.1	43.8	43.2	119.4	52.3	146.6	18	-4	
6th	35.2	-15.1	13.8	-7.1	-13.9	2	-39.9	12.5	-47.3	18.5	32.8	5.7	
7th	-4	-2	4.1	-2.5	14.5	-0.7	19.3	3.4	15.5	6.3	-21.2	-11.2	
8th	-9.6	-57.5	-10.1	-13.4	-15.5	52.1	-18.5	103.1	-10.9	102.7	60.3	-120.6	
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800	Flap Bending, in-lb Blade 1, r/R=0.900	Chord Bending, in-lb Blade 1, r/R=0.144	Chord Bending, in-lb Blade 1, r/R=0.570	Chord Bending, in-lb Blade 1, r/R=0.570	Torsion, in-lb Blade 1, r/R=0.400						
MEAN	-400.6	-723.9	-755.8	-6379.6	-2443.8	-481.8							
RMS	557.7	566	376.8	2210.3	1247.9	158.3							
1/2 P-P	1175.8	1173.1	867.7	3686.2	2834.6	2877							
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	122.6	-479.1	127.5	-354	-5	-99.1	-2591.8	1644.7	-667.9	723.5	129.4	-162.2	
2nd	-356.2	157.8	-374.2	104.3	-205.1	38.1	202.9	309.8	263.2	-142.9	-62.6	43.3	
3rd	-194.3	297.8	-213.8	328.7	-204.8	233.3	139.9	-49.5	-272.5	-69.8	-22.5	-8.8	
4th	33.1	30.2	110.5	62.5	84.6	84.4	-52.8	57.9	524.4	-1122.4	-1	18	
5th	-69.2	-276.2	-95.7	-368.4	-2	-252.3	147.2	136.9	-330.7	-415.7	-4.1	-12.4	
6th	81.9	-33.8	25.9	-24.3	-34.2	-40.6	-45.2	-23.3	40.5	30.6	5.2	-3.5	
7th	-6.6	-8.4	13.5	21.7	-30.6	37.3	14.4	6	-18.1	1.1	0.4	2.3	
8th	-35.3	42.6	-39.3	154.4	-4	190.3	-253.5	-233.4	260.5	222.6	-1.3	4.1	

RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	119.8	-3868	210.8	-4635.1	-1621.4	-667.9	
RMS	293.4	2499.7	273.9	2662.7	2255.2	1609.9	
1/2 P-P	647.7	4036.7	590.8	4370	3711.5	3136.5	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	174.4	41	-1459.2	-3159.8	-12.5	148	3369.4
2nd	11.1	171.2	-211.7	-371.8	-6.3	-185	226.6
3rd	-161.1	-229.7	-56.6	-142.2	-217.4	153.2	-139.6
4th	57.1	22.2	-42.6	87.9	65.7	23.1	34.3
5th	114.8	-59.3	-101.6	149.5	62.1	84.4	-151.2
6th	-35.6	21.8	43.1	8.5	33.7	-17.2	-31.6
7th	-6.2	9.8	38.3	16.3	-1.5	2.3	28.3
8th	-9.3	-88.3	-264.7	-202.3	-9.6	-62.5	-283.4
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Pitch Link, lb
34/19	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1
MEAN	-1537	-475.6	309.6	-5820	-550.4	-49.2	
RMS	1410	174.9	269.5	2421.5	164	14.6	
1/2 P-P	3020.3	293.1	607.9	3928.5	286.6	30.2	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	1191.1	-892.5	-137.7	190.7	-62.5	131.8	1375.3
2nd	235.2	-25.9	-48.3	49.9	-51.2	191.3	-150.1
3rd	223.2	109.6	22.1	8.5	153.1	191	60.9
4th	288.2	-1081.8	1	16.1	60.6	10.9	-3.7
5th	425.6	392.7	1.5	5.2	-87.3	61.3	104.7
6th	40.9	19.6	3.6	-2.9	-36.8	18.1	30.2
7th	-31.7	-23.5	0.5	-3.5	9.8	-7.1	11.6
8th	109.8	79.4	-1.1	7.9	-14.1	-76.1	-237

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
34/20													
MEAN	914.5	912		665.3		636.4		529		112			
RMS	440.8	258.6		124.7		233.5		290.2		511.5			
1/2 P-P	911.2	532.3		316.5		578.7		631.7		1049.6			
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-456.8	124.8	-287.1	33.9	-68	-118.7	9.6	-242.6	31.1	-301	82.8	-525.1	
2nd	-28.6	-176.7	-9.8	-99.8	-16.4	-111.2	-36.7	51.3	-55.1	73.7	-211.8	142.9	
3rd	264	-199.4	151.6	-110.2	11.3	-26.1	-92.9	40.8	-140.4	77.6	-324.2	217.4	
4th	75.4	34.2	41.8	9.4	4	-26	-34.5	-43.6	-53.9	-46.4	-53.6	10.5	
5th	-13.4	-90.6	-4.1	-34.4	-0.1	36	-1.7	104.2	-2	131.4	23.4	-5.2	
6th	38.9	-12.7	15.4	-7.2	-15.2	-1.6	-43.4	5.4	-52.9	10.6	36.3	8.8	
7th	-9.7	3.5	2.6	-1.3	17.4	-4.4	25.1	-2.7	22.9	1.2	-30.8	-6.4	
8th	-12.9	-64.3	-14.9	-12.7	-21	63.3	-25.2	120	-15.4	120.5	72.6	-142.5	
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725		Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Chord Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400		
34/20													
MEAN	-401		-771.7		-851.8		-6003.2		-2414		-487.6		
RMS	600.9	619	435.4		2831.3		1551.1		160.1				
1/2 P-P	1291.9	1258.4	1053		4636.3		3289.2		309.3				
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	102.7	-509.4	121	-383.1	-12.2	-119.4	-3308.3	2145.4	-788	900.3	139.1	-156.8	
2nd	-395.1	127.4	-433.8	75.4	-258.4	28	311.5	318.1	323.7	-164.3	-60.7	43.9	
3rd	-255.8	348.5	-271.2	370.4	-257.9	253.8	217.9	-28	-383.5	-98.1	-24.6	-10.8	
4th	52.9	63.1	150.1	113.5	120	121.5	-57.7	63.4	647.7	-1499.7	2.3	18.5	
5th	33.8	-250.2	23.5	-348.9	93	-232.9	112.3	133.8	-257.3	-403.8	1.8	-16.9	
6th	97.6	-22.5	38.2	-16.2	-32.3	-42.5	-27.6	-30.6	13.4	53.9	5.1	-2.5	
7th	-8.1	-14	14.6	11.6	-35.3	16.9	13.3	0	-8.9	12.2	-2.9	4.2	
8th	-44.6	48.6	-48.2	174.6	-8.3	218.4	-339.5	-210	352.4	197.7	0.2	6	

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
34/20						
MEAN	836.4	-3552.7	945.7	-4360.3	-1363.7	-609.7
RMS	318.4	3151.7	306.6	3208.5	2727.1	1961.3
1/2 P-P	652.1	5040.5	665.4	5274.1	4532.8	3771.1
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	22.3	14.9	-1874.1	-3976.9	61	-10.9
2nd	85.2	139.4	-316	-381.3	-142.7	293.2
3rd	-230.7	-302	-59	-219.5	-286.4	-223.9
4th	76.7	37.6	-41.5	111.8	86.7	39.2
5th	104.8	-17.4	-81.4	130.1	28.5	82.7
6th	-44	17.7	34.5	11.5	41.8	-9.8
7th	-3.2	10.6	9.1	20.2	2.7	-1.5
8th	-14.8	-90.1	-346.7	-186.8	-15.9	-59.6
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
34/20						
MEAN	-1536.8	-482.3	1022.2	-547.9	-562.7	-41.2
RMS	1742.1	174.8	324	3047.2	164.8	11.5
1/2 P-P	3606.3	303.1	712.9	4941.5	295.2	25.3
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	1378.5	-1120	-145.6	183.7	86.3	155.9
2nd	291.1	-41	-45.7	50.7	20.7	162.1
3rd	306.5	151.7	25.6	4.7	231.7	268.7
4th	348.9	-1485	-4.1	22.9	82.3	25.1
5th	380.8	427.8	-4.1	9	-88.9	25.1
6th	33.7	53.2	5.4	-1.9	-40.3	15.6
7th	-21.4	-50	2.5	-2.9	7.8	-9.6
8th	153.5	63	-1.8	8.4	-23.2	-74

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
MEAN	1664	1375.2	856.4	718.1	591.5	176.3							
RMS	666	399.1	163.2	255.2	318.2	551.6							
1/2 P-P	1177.9	696.1	386.1	615.2	712.1	1157.8							
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-797.4	150	-497.5	52.7	-152.3	-116.7	-26.6	-244.8	4.3	-306.4	61.8	-558.8	
2nd	-130.9	-102.5	-71.6	-57	-38.4	3.5	-43.1	50.6	-56.8	67.2	-213	103.7	
3rd	355.8	-190.7	202.3	-104.8	16.5	-27.3	-121.5	34.4	-182.5	68.3	-419.3	189.3	
4th	95.3	35.5	54.5	9.3	9.2	-28.4	-37.7	-45	-61.1	-47.2	-74.1	5.8	
5th	-45.2	-134.3	-15.5	-50.8	11.3	55.9	26.7	155.4	31.5	191.3	30.1	-7.3	
6th	42.2	-22.7	18.3	-11	-13.3	2.1	-40	15.4	-50.1	21.3	34	7.4	
7th	-5.2	-2.7	3.4	-6.3	10.3	-8.3	12	-4.8	9.4	2.5	-21.6	0.2	
8th	-8.7	-63	-14.3	-11.7	-26	61.6	-34.8	113.8	-25.8	114.6	85.4	-134	
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800	Flap Bending, in-lb Blade 1, r/R=0.900	Flap Bending, in-lb Blade 1, r/R=0.900	Chord Bending, in-lb Blade 1, r/R=0.144	Chord Bending, in-lb Blade 1, r/R=0.570	Torsion, in-lb Blade 1, r/R=0.400						
MEAN	-390.4	-810.2	-943	-5849.3	-2434.5	-492.2							
RMS	675.2	721	508.3	3543.4	2033.7	168.9							
1/2 P-P	1404.8	1395.3	1195.9	5543.1	4281	313.4							
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	89.4	-553.5	123.7	-428.4	-9.2	-150.1	-3460.6	3530.4	-793.9	1248.2	157.3	-158.2	
2nd	-461.7	85.1	-537.5	43.8	-348.4	22.4	547.8	248.9	412	-158.4	-51.3	50.2	
3rd	-326.3	330.4	-341.2	349.1	-324.1	236.4	262	-21	-477.5	-212.1	-24.1	0.2	
4th	41.7	45.3	152.2	92.1	121.8	101.4	-94.2	81.4	1151	-1898.5	14.7	24.1	
5th	-34.9	-360.3	-64.5	-482	39.5	-328.2	163.3	202.3	-369.8	-602.7	7.6	-15.5	
6th	101.7	-36.7	39.4	-26.1	-35.5	-51.4	-20.6	-9.4	-17.6	31.3	8.7	-8.5	
7th	-7.9	-16.5	0.4	12.8	-58	28	1.8	-49.2	9.7	44.8	-4.9	6	
8th	-51.5	51.4	-69.9	162	-28.8	205.2	-322.9	-165.4	335.1	154.3	-1.8	6.1	

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
34/21							
MEAN	1582.4	-3370.4	1715.6	-4071.8	-1077.8	-541.5	
RMS	438	3749.1	476.7	3792	3236.8	2389.6	
1/2 P-P	863.7	5879.6	961	6137.9	5364.8	4719	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-6.8	-308.8	-3146.5	-4187.2	422.3	-60.4	4057.2
2nd	169.2	79	-507.3	-327.5	-182.1	-79.6	564.2
3rd	-213.2	-401.7	-32	-279.3	-382.1	220	-265
4th	92.5	34.3	-94.7	136.8	109.6	37.3	78.1
5th	149.6	-50.2	-131.7	176	65.5	119.5	-210.4
6th	-46.5	26	46.7	14.7	39.3	-12.8	-25.5
7th	-9.9	4.4	-17.1	-21.5	-1.4	4.4	13.3
8th	-14.8	-87	-337.4	-139.6	-19.5	-56.2	-352.9
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Flap Bending, in-lb Blade 4, r/R=0.400	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
34/21							
MEAN	-1535.9	-488.7	1759.8	-5252	-576.4	-33.2	
RMS	2212.4	181.9	486.6	3627.4	172.9	11.7	
1/2 P-P	4615.2	310.4	939.7	5836.7	307.8	29.9	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	1379.6	-1612.1	-166.1	179.9	117.9	468.9	3118.8
2nd	413.2	-40.9	-33.5	57.9	105.6	96.6	-452.6
3rd	391.5	239.2	21.3	-1.1	221.8	361.8	18.2
4th	634.9	-1939	-1.7	28	100.7	25.8	5.4
5th	571.3	583	-10.8	8	-125.7	67.7	174.7
6th	41.9	73.4	5.2	-2.7	-34.4	25.6	7.9
7th	-28.7	-29.6	4.6	-3.6	10.2	-5.5	8.8
8th	154.8	44.1	-1.9	8.7	-25.8	-65.5	-318.6

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
34/22													
MEAN	3040.1	2229.5	1208.7	885.2	729.4	321.5							
RMS	857.6	507.9	173.4	295.4	377.5	606.8							
1/2 P-P	1648.9	963	397.9	744.5	888.3	1365.8							
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-828.6	444.2	-523.7	240.3	-148.9	-49.9	-27.2	-236.6	3.2	-313.8	32.5	-603	
2nd	-455.5	3.3	-267.5	1.8	-99.3	21.7	-33.1	49.3	-23.5	61.4	-133.4	66.6	
3rd	451.8	-311.4	257.2	-170.3	17.1	-41.3	-151.6	55.9	-229	105.2	-497.6	264.1	
4th	123.6	36.5	66.8	3.7	-1	-41.2	-61.6	-63.4	-90.4	-67	-79.6	14.4	
5th	31.3	-207.4	14.7	-80.5	-25.7	75.7	-67.7	219.7	-79	274.9	37.6	-19	
6th	49.1	-29.5	17.4	-11.5	-22	7.6	-57.6	26.3	-69.2	32.6	57.6	-8.9	
7th	-14.3	0.1	1.9	-7.6	22	-13.2	32.4	-12.2	30.5	-5.3	-50	10.1	
8th	-42.8	-57.1	-29.2	-10.3	-10.8	61.9	3.9	112.5	14.2	110.8	35.9	-153.1	
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800	Flap Bending, in-lb Blade 1, r/R=0.900	Chord Bending, in-lb Blade 1, r/R=0.144	Chord Bending, in-lb Blade 1, r/R=0.570	Torsion, in-lb Blade 1, r/R=0.400							
34/22													
MEAN	-340.5	-853	-1089.8	-4485.2	-2346.4	-478.3							
RMS	802.9	914.7	703.1	5354.5	2776.2	199.6							
1/2 P-P	1832.4	1887.7	1628.1	8543	5615.7	380.8							
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	35.9	-630.2	85.1	-523.2	-28.9	-213.6	-5242.3	5301.5	-1051	1764	219.9	-126.5	
2nd	-498.3	52.4	-668.4	32.1	-497.9	31.9	1030.2	201.7	563.4	-173.3	39.1	27.4	
3rd	-326.9	421.8	-305.3	435.5	-324.4	276.1	386.7	11.1	-727.7	-313.1	-72.6	-37.5	
4th	136.5	29.9	307.9	70.2	286.8	83.8	-29.4	158.9	679	-2951.8	-18.9	58.5	
5th	178.3	-510.1	173	-696.4	244	-498.1	147	205.2	-288.1	-735.7	21.8	-2.5	
6th	126.3	-39.8	52.9	-7.4	-65.8	-53.3	4.3	-11.2	-60.3	69	11.4	-3.9	
7th	-7.7	-26.6	22.9	23.6	-52.5	54.8	32	-37.6	-23.1	69.4	-4	3.1	
8th	-46.9	61.3	-2.4	154.4	76.1	214.2	-513.5	-108.2	537.3	95	-0.1	5.6	

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
MEAN	2963.4	-2120.9	3136.1	-2971.3	-82.9	-184.9
RMS	631.8	5718.4	717.1	5582.3	4765.6	3329.1
1/2 P-P	1276.9	8894.9	1377.3	9118.9	7913.4	6501.3
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-184.2	-247	-4855.3	-6343.2	468.3	-342.2
2nd	467.7	46.9	-925.1	-401.9	-509.6	17.8
3rd	-384.9	-502.1	-45.4	-405.4	-477.3	365.3
4th	94.8	44.3	-124.6	168.3	132.6	36.5
5th	214.8	-17.1	-152.6	189.7	18.5	180.4
6th	-56.2	35.4	15.8	15.1	55.1	-25.5
7th	-14.5	14.2	16.8	-18.6	4.3	4
8th	-41.4	-109.1	-503.4	-70.2	-39	-62.3
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
MEAN	-1429.2	-485	3124.3	-4080.4	-586.6	-10.3
RMS	2925	211.2	640.4	5623.1	189.4	30.4
1/2 P-P	6017	402.1	1247.2	9058.2	369	67.7
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	1832.1	-2357.5	-230	137.8	293.4	393
2nd	610.5	-49.6	66.6	38.3	418.8	46.5
3rd	652.3	300.2	59	53.4	372.5	445.4
4th	117.6	-2502.3	-35.3	31.7	116.9	23.6
5th	522.9	756.3	1.7	-3.1	-185.5	8.9
6th	-12.2	92.2	8.9	5.9	-54.6	33
7th	-37.1	-66.4	-1.4	-6.9	14.9	-14.4
8th	219.4	37.5	3.5	7.8	-52.7	-76.7

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
35/32		MEAN		-3546.6		-1861.4		-485.6		0		141.2	
RMS		353		216.6		126.2		0		188.9		347.2	
1/2 P-P		630.9		358.2		253.1		0		401.4		690.7	
HARMONIC		COSINE		SINE		COSINE		SINE		COSINE		SINE	
1st		174.2		-139.3		117.2		-116		87.2		-122.8	
2nd		233		-331.5		148.1		-189.3		48.8		-45.9	
3rd		-147		77.2		-79		37.4		-2.6		-0.3	
4th		-5.5		-28		0.3		-15.7		4.5		-3	
5th		-48.1		26.5		-15.6		8.3		26.3		-9	
6th		-3.5		-10		1.5		-5.4		6.2		1.1	
7th		4.4		-5.9		3.9		-3.8		1.5		-1.9	
8th		-19.2		-42.1		-1.4		-8.5		18		38.9	
RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.725		Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Flap Bending, in-lb Blade 1, r/R=0.900		Chord Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570	
35/32		MEAN		-368.3		-419.5		-180.7		-8217.8		-2592.1	
RMS		353.1		293.8		293.8		177.8		579.5		294.3	
1/2 P-P		694.9		574.5		469		469		1075.5		692.7	
HARMONIC		COSINE		SINE		COSINE		SINE		COSINE		SINE	
1st		232.2		-316		154.3		-243.5		25		-66.1	
2nd		-107.7		224		-38		173.5		22.7		47.4	
3rd		66.3		73.5		32		114.2		35.3		112.2	
4th		-3.6		-10.9		-24.3		-30.2		-50.7		-0.8	
5th		-133.7		41.8		-140.2		45.4		-97.6		10	
6th		6.7		-25.9		4.8		-21.3		21		-10.1	
7th		11.8		-4.1		3.4		2.9		-11.9		23.5	
8th		10.5		26		46.7		115.3		39.9		120.9	

RUN/POINT		Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
		Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.174	Blade 3, r/R=0.325	Blade 3, r/R=0.325	
MEAN	-3670.1		-5843.3		-3643.1		-6258.6		-3162.6		-1222.2		
RMS	501.4		754.1		568.3		977.1		804.8		541.6		
1/2 P-P	825.6		1379.1		948.4		1710.5		1383.8		954.7		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	278.9	515.5	440.3	-907.8	-650.2	246.3	1224.4	529.3	995.2	479.4	716.3	166.3	
2nd	-174.7	314.6	122.9	-263.5	188.5	-311.2	-118.1	276.1	-88.2	206.5	-24.3	82.7	
3rd	78.1	117.5	-46.4	5.2	131	-73.1	1.6	65	5.5	43.8	11	-7.7	
4th	0.1	-21	5.1	21.7	-0.1	-25.2	7.2	-1.8	6.4	-20.4	-12.5	-118.8	
5th	-21.3	-54.7	42	40.9	49.4	-37.1	-38	49.2	-15.2	23.2	94	-71.4	
6th	2.6	13.6	0.3	-17.6	-5.8	-13.3	10.3	15.5	9.1	8.8	-6.3	-21.4	
7th	-1.8	-3.1	16.3	10.4	-10	5.2	16.9	14.6	11.2	9.6	-3.8	-10.7	
8th	-44	-48.9	-78.8	-10	-30.8	-23.6	-86	-12.2	-71.4	-14.8	-43.5	-8	
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb			
		Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 4, r/R=0.400	Blade 1	Blade 1	Blade 1	
MEAN	-1709.7		-375.3		-3425.6		-7575.3		-427.6		-69.7		
RMS	420.5		171.7		413.5		760.9		153		21.4		
1/2 P-P	877.5		271.2		753.6		1343.9		251.1		35		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	526.9	26.6	-88.6	220.3	-177	-336.7	-574.3	830	-191.9	-87.8	21.1	-20.7	
2nd	13.1	9.5	-7	48.3	-229.3	324.1	186.7	-250.7	6.5	-43.2	-0.4	3.2	
3rd	6.2	-29.3	0.5	-1.1	-78.3	-159.5	61.6	28.5	-6.9	-7.5	1.2	1.5	
4th	-21	-147.2	8.5	-0.5	-1.1	-23.4	18.7	5.2	10.7	-1.5	1.2	-0.4	
5th	143.4	-128.6	-0.5	-6.8	46.5	38.9	-60.2	-53.8	7.6	-1	-1.6	0.8	
6th	-8.6	-28.3	0	-0.8	4.1	11	1.9	-18	0.3	1	-0.8	0.2	
7th	-12.9	-6.9	-0.4	1.6	7.7	7.3	10.3	19	1.1	1	-0.9	-0.5	
8th	39	9.4	3	2.8	-41	-27	-82.3	-6.4	3.6	3.5	0.5	0.1	

RUN/POINT		Flap Bending, in-lb									
35/33	Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	
MEAN	-2198.7	-1024.9	-141.7	0	0	247.6	-149				
RMS	257.3	166	126.6	0	0	199.5	359.6				
1/2 P-P	507.8	310.7	233.6	0	0	367.1	690.7				
HARMONIC		SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	15.4	-188.1	17.5	-151	49.5	-156	0	91.3	-231.1	196.5	
2nd	97.2	-280.5	67.9	-159.9	22.2	-33.7	0	-29.8	72.1	-149	
3rd	-46.6	-0.9	-21.5	-4.8	4.3	-7.7	0	24.2	1.1	22.3	
4th	23.5	-9.7	15.9	-6.3	7	-5.7	0	-15.2	4.4	-24	
5th	-43.4	13	-14.1	4.1	23.4	-3.4	0	61.2	-10.9	-6.1	
6th	3.4	-15.5	4.5	-7.9	4.7	2.3	0	0.1	17	2.6	
7th	-0.3	-2.9	3.3	-3	7.9	-2.7	0	0	4.6	1.4	
8th	-5.3	-41.1	-1.4	-8.2	-1	37.7	0	0	0.9	72	
RUN/POINT		SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
35/33	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.900							
MEAN	-393.7	-539.7	-389.2	-7622.7	-7622.7	-2551.7	-430.9				
RMS	376.3	318.4	170.6	804.4	804.4	473.9	151				
1/2 P-P	711.4	619.8	441.6	1603.7	1603.7	1239	248.3				
HARMONIC		SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	188.3	-375.5	140.2	-279.2	11.6	-67.8	-1066.9	106.9	-395.8	256.5	
2nd	-180	209.2	-151.7	160.4	-65.2	51.7	0.6	292	83.9	-63	
3rd	-9	118.8	-37.6	150.4	-34.2	125.8	31.7	-54.5	36.5	-8.5	
4th	8.6	9.4	17	7.8	-10.5	33.7	-22.3	40	188.6	-327.4	
5th	-106	-1.6	-118.3	-15.8	-66.3	-31.2	62.3	-13.1	-154	5.2	
6th	18.4	-37.7	7.8	-33.4	10.3	-22.5	4.5	19.4	-12.3	-4.6	
7th	6.8	-10.1	10.1	-6.8	-7.9	1	-17.4	-13.2	-28.9	1.3	
8th	-5.5	25.5	-2.6	108.6	0.6	116.8	-123.4	11.6	11.6	-3.8	

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
MEAN	-2312.9	-5221.4	-2269.1	-5650.4	-2571.5	-998.7
RMS	409.6	1092.8	445.2	1302.4	1080.7	762
1/2 P-P	632	1927.9	721.3	2186.4	1806.9	1354.6
HARMONIC	COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE
1st	339.4	376.8 -94.8	376.8 -1497.7	300.2 -473.8	1798.2 -26.2	1495 14.1
2nd	-34.5	261.6 -29.7	261.6 -293.1	44.3 -268.6	42.3 318.7	246 32.3
3rd	-9.5	15.3 -48.7	15.3 -5.5	28.1 8.6	-4.4 67.2	-1.9 51.3
4th	26.5	-5.6 -26.2	29.6 30.7	-10.7 3.5	-4.9 25	25 -32.4
5th	0.1	-47.4 9.8	54.6 48.1	-16.7 -44.4	25 -16.7	12.9 110.7
6th	-7.1	14.6 15.4	-9.8 4.3	-11.3 -3.2	12.3 0.9	7.5 -165.3
7th	0.2	2.3 -15.4	-10.9 -2.2	0.6 -14.4	-5.7 -12.4	-8.8 98.8
8th	-13.8	-54.7 -118.6	-66.6 -16.3	-35.2 -133.5	-71.6 -111	-69.6 -14.3
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
MEAN	-1634.9	-421.2	0	-7015.9	-483.2	-71
RMS	595.7	173.6	0	1010.5	153.6	22.7
1/2 P-P	1263.7	281.5	0	1778.5	252	41.7
HARMONIC	COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE
1st	723.4	-242.5 -106.8	214 0	0 -34.7	1381 -182	-106.6 22.2
2nd	74.2	-6.8 -21.2	48.1 0	0 22.2	-285.3 25.7	-41.4 -6.4
3rd	35.4	-20.4 11.3	3.5 0	0 55.5	35.9 2.7	-12.9 -0.5
4th	134.3	-230.3 9.3	0.6 0	0 -7.1	16.9 6.9	-0.9 0.8
5th	160.2	-49.7 3.1	-5.2 0	0 -20.5	-56.1 5.5	2.7 -2.1
6th	11.9	-21.5 0.9	-3 0	0 7	-2.4 0.2	3.3 -0.5
7th	4.3	4.7 -1.7	2.1 0	0 -16.5	-11.2 0.3	1.5 -0.1
8th	53.1	26.4 1.6	2.7 0	0 0	-122.2 -72.2	2.1 0.2

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
35/34		RMS		RMS		RMS		RMS		RMS		RMS	
MEAN	-1025.2	-298	156.8	0	0	350.2	350.2	-24.8	-42.8	379.1	379.1	725.6	725.6
RMS	171.6	101.2	103	0	0	209.5	209.5	379.1	379.1	725.6	725.6	725.6	725.6
1/2 P-P	333.7	211.8	208.7	0	0	455.4	455.4	725.6	725.6	725.6	725.6	725.6	725.6
HARMONIC		COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	13.7	-6.1	10.4	-41.5	50.4	-122.5	0	0	82.8	-247.2	153.7	-429	-429
2nd	32.5	-199.9	27.2	-112.6	3.2	-18.4	0	0	-38.3	62.8	-161.4	147	147
3rd	50.8	-88.5	33	-52.4	7.7	-16.7	0	0	-24.3	30.1	-89.1	131	131
4th	28.8	11.6	17.7	3.2	5.2	-10.1	0	0	-21.1	-14.1	-27.6	13	13
5th	-48.5	-36.8	-15.9	-14.8	20.5	15.6	0	0	60.5	54.2	3.4	4	4
6th	12.4	-11.6	6.4	-6.2	-2.4	-0.2	0	0	-16.8	12.2	12.7	3	3
7th	-4	-0.8	3	-1.5	12.8	-1.9	0	0	12.5	0.8	-16	-3	-3
8th	-4.7	-36.4	-3.8	-8.9	-5.9	30.7	0	0	-4.3	62.3	32.7	71	71
RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.725		Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Flap Bending, in-lb Blade 1, r/R=0.900		Chord Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570	
35/34		RMS		RMS		RMS		RMS		RMS		RMS	
MEAN	-374	-622.1	-564.2	-682.4	-682.4	-2483.2	-2483.2	-463.5	-463.5	712.1	712.1	149.2	149.2
RMS	416.5	385.9	227.5	1504.3	1504.3	1757.5	1757.5	249	249	1757.5	1757.5	249	249
1/2 P-P	779.8	768.9	527.9	2431.4	2431.4	1757.5	1757.5	249	249	1757.5	1757.5	249	249
HARMONIC		COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	141.7	-403.2	122.8	-294.8	-2.7	-74.9	-1992	620.2	-560.1	439.7	113.9	-166	-166
2nd	-252.7	157.3	-258.5	115.5	-139.5	42.9	119	283.2	149.1	-89.9	-45.6	38.2	38.2
3rd	-80.2	204.1	-97.1	223.2	-98.3	163.3	70.3	-51.1	-99.4	15.8	-13.9	-1.1	-1.1
4th	10.7	23.3	41.3	40.1	24.4	54.7	-2.5	48.3	164.9	-544.6	0.8	9	9
5th	-89.2	-120.1	-109.3	-167.2	-44.2	-123.8	93.1	47.2	-221.9	-150.8	-7	-2.1	-2.1
6th	34.9	-28.3	12	-26.4	-13.7	-25.5	-9	-6.7	8.6	11.1	2.7	-2.1	-2.1
7th	0.7	-6.9	17.5	-4.2	-0.1	3.7	-15.3	9.1	11.8	-3.6	1.7	0.2	0.2
8th	-12.3	19.8	-14.8	93.7	0.8	110	-146.7	-125.1	153.1	153.1	125.1	125.1	125.1

RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144
MEAN	-1124.7	-443.6	-1059.4	-4875.9	-1869	-731
RMS	349.9	1825.1	375.3	2011.5	1680.9	1150.6
1/2 P-P	675.5	2834.9	698.2	3112.7	2610.8	1991.9
HARMONIC	COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE
1st	147.5	401.5 -502.5	-2494.2 -456.9	114.9 2767.7	-473.8 2318.9	-369.1 1502.5
2nd	32.9	175.5 -128.1	-314.6 -20.8	-184.1 151.2	326.8 122.7	258.3 122.3
3rd	-108.2	-84 -60.3	-60.3 -71.9	105.3 -47.7	68.6 -27.8	59.9 57.1
4th	29	15.1 -11.2	42 -37.6	13 15.3	-11.5 25.7	-60.5 53.2
5th	58.4	-50.3 -41.6	77.5 56.3	41.5 -88.8	-36.1 -39.7	-12.5 154.8
6th	-17.7	14.9 13.7	-10.1 19.8	-8.8 -21.2	9.1 -11.7	6.4 1.6
7th	-2.5	10 -1.8	15.1 3.5	-0.8 -9.3	19 -9.2	11.4 2.8
8th	1.7	-51.4 -150.8	-111.2 -3.2	-32.9 -162.1	-121 -130.1	-118.3 -75.5
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Pitch Link, lb
	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1
MEAN	-1527.8	-454.1	0	-6291.7	-523.7	-69
RMS	889.7	170.7	0	1706.2	153.6	20.9
1/2 P-P	1779.9	285.2	0	2645.2	253.4	39.3
HARMONIC	COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE
1st	1018.3	-468.8 -124.2	197.6 0	0 402.4	2346.3 -167.2	-126.4 21.9
2nd	131.6	-14.5 -35.6	43.9 0	0 -72.9	-275.3 41.5	-31.3 -10.7
3rd	111.2	10.4 18.1	3.5 12.3	0 0	60.5 79.4	10.5 -15.4
4th	41.9	-419.1 3.4	5.5 0.5	0 0	-8.5 10.4	3 8.5
5th	262.3	154.6 5.5	0.5 0	0 40.4	-89.1 -0.5	6.3 -2.5
6th	33.9	-10.2 2.7	-1.7 0	0 28	-0.5 -2.5	1.1 -0.3
7th	-1.4	-14.3 -0.5	0.1 0	0 -12.2	11.8 -0.6	0.6 -0.5
8th	60.1	43.8 -0.8	3.4 0	0 -140.1	-122.3 -0.9	4.1 -0.5

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
MEAN	-227.3	188.3	353.2	0	422.9	422.9	17.5						
RMS	201.7	126.8	123.7	0	234.9	234.9	406.2						
1/2 P-P	437.7	253.7	282.8	0	522.3	522.3	795						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-82.8	-102.7	-49	-100.1	30.7	-157.5	0	0	76.9	-275.7	135.6	-464.1	
2nd	-33.7	-176.6	-11.3	-99.5	-10.8	-11.4	0	0	-35.9	68.3	-169.5	141.9	
3rd	110.7	-96.1	66.1	-56.1	9.8	-19.4	0	0	-57	32.2	-156.3	128.7	
4th	41	18	24.8	5.2	7.8	-13.1	0	0	-24.4	-21.9	-35.1	7	
5th	-22	-69.4	-5.1	-26.3	9.6	29.2	0	0	25.3	102.6	9.6	1.1	
6th	18.2	-9.2	8.7	-5.2	-5.4	-0.8	0	0	-25.5	11.6	19	6.3	
7th	-4.1	4.1	4.7	0.3	16.5	-4.4	0	0	19	-5.3	-27	0.8	
8th	-3.3	-32.1	-7.1	-8.5	-13.5	26.9	0	0	-12.3	55.5	42	-58.9	
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800	Flap Bending, in-lb Blade 1, r/R=0.900	Flap Bending, in-lb Blade 1, r/R=0.144	Chord Bending, in-lb Blade 1, r/R=0.570	Chord Bending, in-lb Blade 1, r/R=0.570	Torsion, in-lb Blade 1, r/R=0.400						
MEAN	-366.8	-659.2	-667.1	-6390.7	-2408.8	-2408.8	-477.8						
RMS	471.5	456.1	282.1	2203.7	944.8	944.8	153.6						
1/2 P-P	972.5	935.4	634.4	3544	2176.9	2176.9	265.1						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	128.4	-444.5	125.5	-327.1	-6.8	-89.2	-2620.6	1601.3	-675.7	687.7	128.6	-160.5	
2nd	-305.3	127.9	-335.3	83.7	-201.1	34	259.2	318.6	201.9	-89.3	-52.6	38.3	
3rd	-128.2	243.2	-138.1	260.7	-142.6	180.2	91.4	-51.3	-161.2	-14.3	-14.3	-5.4	
4th	-1.4	23.6	45.9	49.4	37.8	57.3	-44.8	40.7	365.1	-659.5	0.7	13.6	
5th	-23	-195.6	-41	-258.1	12.5	-167.5	88.1	92.9	-192.8	-296	-4.3	-9.1	
6th	45.7	-25.8	16.5	-22.2	-23.9	-26.1	-30.9	-7.6	26	5.3	3.9	-2.2	
7th	0.2	-4.2	20.4	-6.3	-3.4	-8	12.4	-5.6	-6.9	5.7	2.2	0.3	
8th	-21.1	17.5	-36.2	80.2	-15.8	101	-161.9	-176.6	170	169.1	-1.7	4	

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
40/29	-314.3	-3944.3	-259	-4536.3	-1527.6	-536.1
MEAN	354	2516.1	345.4	2651.2	2228	151.5
RMS	727.5	3912.3	689.9	4194.9	3519.5	2644.9
1/2 P-P						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	234	334.7	-1441.8	-3206.2	-345.4	199.7
2nd	91.9	145.9	-262.1	-359	-88.3	-161.3
3rd	-123.6	-142	-58.9	-85.9	-129.6	117
4th	35.6	28.8	-24.5	58.2	44.9	27.1
5th	96.6	-39	-97.5	75.6	41.9	83.2
6th	-22	8.7	26.5	4.2	21.1	-7.7
7th	7.2	10.8	29.3	10	4.4	-7.2
8th	-3.5	-61.4	-182.3	-150.1	1.2	-42.3
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
40/29	-1409.3	-472.5	0	-5897.1	-546.3	-87.8
MEAN	1182.2	174.8	0	2399.4	160.3	15.5
RMS	2331.1	290.2	0	3823.9	268.7	27.3
1/2 P-P						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	1210.9	-835.7	-139.8	192.7	0	0
2nd	179.9	-9.4	-39.9	45.4	0	-215.2
3rd	136.6	30.6	18.4	6	0	52.8
4th	140	-575.7	3.3	15.3	0	-4.3
5th	276	350.2	5.3	5.9	0	88.5
6th	36	9.5	3.6	-1.6	0	19.6
7th	-32.3	-7	-0.6	-1.1	0	18
8th	70.9	63.6	-0.8	4.3	0	-156

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
40/30	Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	
MEAN	394.5	577.1	515.7	0	482.3	80.1					
RMS	216	120.8	110.6	0	252.1	436.5					
1/2 P-P	507.9	290.5	248.4	0	548.9	889.6					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-85.5	8.8	-53	-29.5	32.7	-134	0	76.7	-281.1	112.6	
2nd	-65.9	-134.2	-30.8	-74.6	-18.4	-2	0	0	-34.9	-492.4	
3rd	177.6	-137.3	103	-76.8	10.4	-20.4	0	0	65.2	-160.7	
4th	44.2	27.7	25.8	9.5	5.9	-16.5	0	0	-92.2	123.8	
5th	-18.9	-85.5	-4.9	-30.9	4.7	38.6	0	0	-31.4	-230.8	
6th	26.3	-5	12.3	-3.7	-6.3	-3.8	0	0	12.4	158.8	
7th	-6.6	0.9	3.5	0.4	16.6	1.3	0	0	-31.3	-38.6	
8th	5.2	-30.1	-7.6	-8.4	-26.6	24.3	0	0	4.8	2.6	
							0	0	14.7	-11.8	
							0	0	128.6	-0.1	
							0	0	12.4	9.5	
							0	0	16.5	-22.3	
							0	0	5	-11.8	
							0	0	53	-53	
RUN/POINT	Flap Bending, in-lb	Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
40/30	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.144	Blade 1, r/R=0.144	Blade 1, r/R=0.144	Blade 1, r/R=0.400	
MEAN	-357.2	-696.7	-755	-5855	-2363.1	-488.7					
RMS	512.9	514.9	328.9	2762.5	1204.1	156.3					
1/2 P-P	1103.6	1062.9	750.8	4362	2655	277.4					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	101.1	-468	114.3	-344.8	-13.9	-99.4	-3252.4	2090.9	-781.2	851.8	
2nd	-332.7	106.8	-387.3	66.4	-244.3	31.9	306.5	302.9	233.9	140.6	
3rd	-182.3	269.1	-181.9	276.1	-184.9	183.5	131.7	-33.7	-251.4	-152	
4th	12.1	32.5	76.4	74.7	75	78.2	-49.3	55.1	420.5	37.8	
5th	3.7	-245.9	-15.4	-327.7	39.6	-212.3	79.5	108.2	-185.8	-14.6	
6th	58	-15.9	27.9	-19.5	-28	-32.4	-19.3	-4.3	9.2	-13.9	
7th	-4.2	-5.8	15.4	8.8	-9.4	2.1	3.8	-25.7	2.8	3.6	
8th	-31.7	16	-66.3	72.6	-38.5	93.8	-162.9	-198.6	171.7	-3	

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	322.7	-3423.4	386.8	-4017	-1062.4	-352.1				
RMS	358.2	3114.4	340.5	3144.8	2651.7	1818.3				
1/2 P-P	796	4825	751.1	4973.9	4219.8	3242.3				
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	124.3	340.9	-1911.9	-3922.2	-320.1	100.5	3938.9	-1971.7	3341	-1259.3
2nd	127.4	100.3	-319.3	-360.1	-127.7	-114.2	278.1	392.1	225.3	112
3rd	-176	-214.6	-47.9	-132.4	-203.3	169.9	-145.8	49.4	-101.8	57.2
4th	45	34	-17.2	80.4	55.4	33.1	37.7	-28.2	66.4	-645.8
5th	108.4	-31.2	-99.2	93.5	39.8	101.3	-90.5	-126.2	-29.3	167.6
6th	-29.7	2.9	26.2	12.7	26.3	1.4	-15.6	-20	-7.3	286.6
7th	2.7	11.6	12.3	-3.6	8.1	-2.3	21.1	-1.1	15.3	32.5
8th	3.7	-60.8	-180.5	-178.1	4.1	-42.1	-194.2	-192.8	-160.3	-4.9
									-186.7	-12.1
									-79.5	-106.8
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Pitch Link, lb	
40/30	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1	
MEAN	-1339.5	-483.5	0	-5391.9	-561.2	-83.5				
RMS	1456.9	175.8	0	3009	165.5	12.6				
1/2 P-P	2861.6	297.5	0	4739.9	282.5	22.9				
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	1366.8	-1065.6	-150.1	184.8	0	0	1834.9	3801.4	-158.1	13.1
2nd	194.2	2.5	-43.4	46.7	0	0	-257.1	-315	54.5	-4.9
3rd	206.5	70.5	21.6	5.5	0	0	40.8	145.2	14.5	0.9
4th	189.8	-891.7	1	18.6	0	0	0.3	-17.9	4.7	0
5th	298.6	443.3	2.8	9.3	0	0	97.3	-63.3	-9.5	0.2
6th	42.8	43	4.3	-0.2	0	0	9.1	24.1	-4	0.2
7th	-25.2	-3.5	1.1	-1.5	0	0	17.2	-28.2	-2.1	0
8th	77.7	70.6	-1.7	4.4	0	0	-156	-205.3	6.2	0

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
40/31	Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	
MEAN	1088.6	1008.7	692.5	0	543.8	146.9					
RMS	271.2	161.8	136.8	0	274.5	470.3					
1/2 P-P	561.1	317.3	311.7	0	601.1	964.2					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-126.1	-103.2	-80.1	-97.3	25.4	-172.6	0	0	70.3	-307.5	
2nd	-124.2	-109	-66.2	-60.2	-31.6	2.6	0	0	-36.3	94.8	
3rd	204.1	-187.6	118.8	-104.9	10.4	-25.5	0	0	-109.2	-183.6	
4th	49	34.6	28.4	11.7	5.5	-19	0	0	-35.9	61.3	
5th	-3.8	-93.3	-0.1	-34.1	-3.7	39.3	0	0	-10	-183.6	
6th	28	-4.4	12.1	-4.7	-10.4	-8.4	0	0	-40	69.6	
7th	-6.1	9	3.1	1.2	15.6	-8.5	0	0	-18.9	-27.1	
8th	-10.6	-35.7	-13	-9.7	-18	29.8	0	0	-13.1	186.	
RUN/POINT	Flap Bending, in-lb	Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
40/31	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.144	Blade 1, r/R=0.144	Blade 1, r/R=0.144	Blade 1, r/R=0.400	Blade 1, r/R=0.400
MEAN	-338.1	-728.5	-842.4	-5360.4	-2321.3						
RMS	560.5	572.5	379.3	3729	1469.1						
1/2 P-P	1176.6	1201.1	903.9	5784.1	3100.7						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	91.5	-484.8	119.6	-354.3	-12.7	-102.5	-4067.8	3273.4	-918.9	1152.5	158.6
2nd	-405	74.9	-483.3	35.3	-318.9	21.3	478.2	365.4	313.6	-102.7	-56.5
3rd	-205.5	306.8	-207	298.1	-224.9	183.5	200.7	-16.6	-339.6	-381.7	-1201.4
4th	1.2	43	75.3	101.9	77.1	91.7	-19.1	47.9	122.6	-173.6	10.9
5th	53.6	-256.2	40.2	-340.7	94.3	-205.4	83.6	-48.9	-1.8	-384.6	24.4
6th	66.1	-7.5	30.1	-17.5	-36.1	-30.6	-7.7	-8.1	21.3	7.8	-18.3
7th	2.3	-3.6	17.2	-7.3	-19.4	-30	-24.9	-32.2	37.4	26	-4.1
8th	-28.8	19.9	-38.2	87.8	-9.1	110.4	-239.1	-187.6	255.9	5.2	2

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
28/33	MEAN	-941.7		-274.2		131.5		276.7		270.3		-216.6	
	RMS	628.5		359.6		160.9		301.4		353.4		624	
	1/2 P-P	1183.2		660.4		334.7		587.4		673.3		1182.5	
HARMONIC		COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st		-653.7	71.2	-382.6	-25.3	-66.2	-169.9	122.1	-325	173.8	-375.2	401	-632.2
2nd		124.1	-557.3	83.8	-313.5	14.4	-54.1	-28.1	118.2	-42.8	172.3	-224.9	360
3rd		-94.9	64.2	-48.6	26.9	4.7	-15.3	45.2	-46	58.1	-47.4	57.2	68.9
4th		2	8.7	8	7.3	10.6	4.6	10	-4.3	7.6	-6.8	-32.9	10.3
5th		-85.1	-2.3	-28.9	-0.1	40.5	7.5	104.8	9.1	123.3	7.4	-46.9	8.1
6th		0.1	-19.4	1	-7.4	0.4	6.3	0.7	15.4	0.8	16.9	-23.9	9.4
7th		2.3	-0.2	4.4	0	7.3	-1.1	8.5	-2.1	7.8	-1.6	-22.4	14.5
8th		28.2	-73.3	-0.4	-11.7	-49.5	69.6	-81.7	129.5	-69.5	129.1	128.7	-114.7
RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.725		Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Chord Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400	
28/33	MEAN	-531.4		-701.9		-587.9		-8423		-2666.8		-435.3	
	RMS	589.2		493.3		352.7		1034.8		696.9		219.2	
	1/2 P-P	1012.6		1041.5		937.3		2131.6		1675.5		339.1	
HARMONIC		COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st		368.1	-582.4	211.1	-427.7	-37.4	-117.1	-1298.7	-250.3	-747.2	311.6	155.1	-248.6
2nd		-182.6	314.1	-145.7	233.9	-81.4	84.5	3.7	522	180.7	-109.2	-60.6	63.9
3rd		-5.8	185.8	-34.7	232	-24.8	185.2	59.4	-99.6	61	39.6	32	-4.6
4th		-17.7	64.4	-54.5	112.9	-80.4	130.2	-33.2	-16.9	299.6	-18.2	-16	20.8
5th		-171.8	-25	-181	-3.7	-137.4	32.9	126.4	41.5	-259.8	-167.5	-12.4	-1.9
6th		37.9	-59.7	71.2	-63.5	72	-30	11.5	24.6	-1.3	-52.6	8.8	-12.6
7th		28.7	-31.9	7.8	-47.9	-10.9	-36.8	-22.6	-26.6	24.4	14.7	7.9	-1.1
8th		-20.7	16.4	-132.7	193.1	-186.2	230.6	-63.7	-63.7	-164.6	74.3	136.5	-1.7

RUN/POINT		Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
		Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.174	Blade 3, r/R=0.325	
MEAN	-1489.7	-6167.2		-147.5		-6516.5		-3279		-1421.4	
RMS	455.8	1403.9		478.6		1673.6		1419		1021.3	
1/2 P-P	974.1	2547.9		970.9		2989.9		2516.2		1993.1	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	128.4	-2	795.6	-1694	-110.9	79.6	2044.8	942.6	1750.8	811.5	1371.8
2nd	-135.1	578.3	77.1	-566.3	153	-609.8	-87.5	628.3	-57.3	468.9	74.7
3rd	5.7	87.8	-70.3	-26.3	101.8	-5.4	-19.8	100.4	-10.6	64.8	0.1
4th	-4.8	11.4	52.3	19.8	-14.3	2.2	6	1.4	-13.2	0.2	-113.5
5th	-69.2	-61.2	63.5	64.1	60.6	-88.1	-52.7	84.8	-15.5	41.8	170.5
6th	-13.7	6.9	19.4	-18	2.7	-11.5	9.1	15.8	8.4	6.5	14
7th	4.4	-4.8	-39.4	26.8	-3.6	-2.6	-11.2	41.2	-16.8	26.5	-15.9
8th	19.9	-99.9	-62.4	-109.7	18.1	-62.1	-52.6	-121.3	-38.2	-104.1	-7.8
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Pitch Link, lb			
28/32	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 4, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1			
MEAN	-1856.3	-412.1		-1305.6		-7941		-475.3		-46.1	
RMS	846.9	241.9		488.8		1415.9		215.3		26.1	
1/2 P-P	1943.2	371.3		891.7		2602.7		346		46.9	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	1081.7	-63.5	-154.2	287.8	41.7	177.5	-1061	1567.9	-247.5	-153.1	25.6
2nd	119	-39.7	-47.2	72.2	-184.4	593.3	142.7	-532.6	49.6	-57.6	-7.2
3rd	-10.3	-64.7	-31.5	14	-27.8	-143.2	98.4	59.8	8.3	22.1	8.3
4th	-153.2	-24.2	-13.1	35	-20.4	0.3	2.5	-26.7	-10.7	32.9	-4.4
5th	230.8	-180	9.3	0.3	95.8	51.6	-82.3	-85.3	-2.9	3.4	-3.8
6th	23.9	-42.9	2.2	-8.6	-3.2	8.8	2.5	-17.7	-3.5	9.1	0.3
7th	0.6	-44.2	-6.5	1.7	1.9	3.7	-7.4	8.6	-0.1	4.9	-0.1
8th	27.9	67.7	1	6.5	-7.8	-86.5	-51	-106.4	1	10.4	-1.6

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.370	Blade 1, r/R=0.570	Blade 1, r/R=0.400	Blade 1, r/R=0.570	Blade 1, r/R=0.400
MEAN	-1433.7	-579.4	1.8	213.4	215.2	-271.4				
RMS	585.1	330.9	158.2	304.9	358.1	623.9				
1/2 P-P	1107.4	638.4	372.9	559.4	656	1202.4				
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-510.2	71.1	-292.3	-27.6	-168.5	137	-323.7	185.7	-373.8	403.8
2nd	189.4	-577	123.1	-323.7	28.9	-57.7	-26.8	117.7	-45.2	171.9
3rd	-131.4	19.8	-68.2	1.8	0.9	-15.4	55.1	-26.3	73.3	-20.2
4th	-21.8	1.5	-5.4	2.4	7.8	5.8	18.1	1.5	20.5	0.7
5th	-60.8	67.3	-18.1	28	39.1	-17.6	91.5	-64	105.7	-19.3
6th	8.1	-6.4	4.8	-1.3	0.5	2.9	-2.2	4.9	-3.4	-78.3
7th	3.7	4	4.5	2	6.5	-2.5	7.2	-6.1	6.5	5.2
8th	26.7	-74.8	1.5	-9.7	-41.8	74.9	-69.5	136.4	-58.1	-6.2
								134.9	113.6	-129.5
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
28/32	Blade 1, r/R=0.725		Blade 1, r/R=0.800		Blade 1, r/R=0.900		Blade 1, r/R=0.144		Blade 1, r/R=0.570	
MEAN	-531.1	-665.1	-512.8	-859.5	-2669.3	-420.3				
RMS	569.9	467.7	334.4	1072.6	622.9	212				
1/2 P-P	1097.1	966.7	813	2021	1374.7	330.2				
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	359.2	-545.8	206.4	-380.8	-21.8	-87	-1110.2	-694.7	172.7	140.9
2nd	-138.3	320.5	-86.4	231.9	-29.1	71.2	-100	497.8	157.2	-123.1
3rd	63.2	195.4	49.4	231.8	43.2	174.4	50	-94.6	44.7	80.7
4th	-37.2	41.7	-83.1	80.8	-95.4	102.8	-0.4	-6.1	-137.5	34.5
5th	-140.6	124.9	-140.2	155.6	-110.8	125.1	84.6	-71.4	-218.8	-6.7
6th	33.8	-34.4	64	-25.9	60.5	-5.8	5.1	23.8	13.6	87.5
7th	31.7	-30.8	11	-45.8	-6.6	-32.2	-33.3	-3.2	32.2	-4.1
8th	-13.8	27.9	-106.8	199.8	-161.2	230.7	-66.9	-106.1	74.2	7
								84.7	0.1	7.9

RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	-2614.5	-6324.6	-2600.3	-6639.8	-3440.1	-1409.8
RMS	528.8	1001.1	560.5	1242.2	1053.2	716.3
1/2 P-P	973.2	1724.4	1043.7	2221.7	1873.9	1460.3
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	224.1	-60.4	1046	-746	-123	207
2nd	-178.1	623.3	136.4	-489.7	195.1	-657.6
3rd	149.3	176.8	-101.1	-0.8	196.8	-144.9
4th	-34	-10.8	70.2	21.6	-44	-24.4
5th	-77.6	-15.3	94.6	29.6	17.4	-90
6th	-8.8	5.3	18.2	-15.4	-10.2	-12.4
7th	3.6	-11.9	25.5	11.6	-5.9	-1.2
8th	-9.6	-88.9	-33.5	-61.5	2.3	-73.8
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Pitch Link, lb
	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1
MEAN	-1777.3	-376.7	-2419.4	-8052.2	-430.6	-46.5
RMS	600.8	242	576.8	1090.7	213.4	24.3
1/2 P-P	1253.4	366.5	1141.1	1926.7	331.4	43.6
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	755.4	132.8	-126.9	301.2	-79.5	237.4
2nd	52.5	-8.5	-23.4	73	-231.7	647.6
3rd	-27.1	-50.3	-39.4	22.6	-168.6	-244.6
4th	-103	105.9	8.7	44.6	-52.9	-25
5th	101.7	-235.7	6.6	-1.9	95.3	-5.8
6th	8.1	-29.7	-1.8	-5.9	-1.5	14.5
7th	-34.4	-2.5	-3.1	3.4	-1.5	8
8th	19.8	51	1.8	6.2	-28.3	-82

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
		Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.570	
MEAN		-2536.4	-1263.9	-286.2	84.8	107.2	-378				
RMS		649.4	372.3	165	296.9	349.7	596.4				
1/2 P-P		1296.8	735.8	361.8	546.8	668.5	1171.1				
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-534.9	-35.4	-303	-91.4	-38.9	-185.3	132.1	-312	181.4	-351.8	
2nd	232.4	-629.5	151.5	-354.8	47	-67.5	-10.1	118.8	-28	175.9	
3rd	-224.2	151.6	-122.2	74	-2.9	-2.7	85.3	-53.3	114.8	-63.6	
4th	-54.5	-16.9	-23.2	-6.9	7.9	9.8	29.5	15.1	33.3	15.9	
5th	-28.7	79.7	-5.9	33.2	28.3	-22	59.3	-79.1	64.5	-97.1	
6th	3.9	-10.8	5	-2	6.4	8.1	7.8	13	6	-42.5	
7th	7.6	5.4	6.2	3.8	4.7	-0.5	2.9	-6.3	1.4	-6.7	
8th	7.5	-75.1	0	-9.3	-19.1	79.1	-31	141.8	-21.9	137.2	
RUN/POINT	Flap Bending, in-lb	Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
28/31	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.144	Blade 1, r/R=0.144	Blade 1, r/R=0.144	Blade 1, r/R=0.400	
MEAN		-509.4	-552.4	-323.2	-8734.6	-2643.9	-382.1				
RMS		531.3	443.8	302.1	919.3	451	208.4				
1/2 P-P		1053.7	982	720.2	1680.7	1052.1	317.3				
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	319.1	-495.8	189.7	-343.6	11	-72.8	-316.4	-1115.6	-483.2	5	
2nd	-44.9	341.3	6.6	234.6	33.7	65.2	-162	458.1	84.8	-104	
3rd	157.5	151.1	159.2	217.4	130.8	176.8	37.7	-117.7	80.6	62	
4th	-61.1	-26.3	-125	-6.6	-120.2	41	23.3	0.8	-169.4	143.5	
5th	-76.9	172.7	-62.1	189.9	-63.9	141.7	37.7	-110.8	-128.3	178.3	
6th	14.1	-33.1	61.2	-7.3	68.6	3.1	-3.9	39.6	16.8	-6.8	
7th	29.9	-29.2	12.2	-39.4	7.6	-15.7	23.1	-5.5	-17.3	-9.8	
8th	-0.6	40.6	-32.2	198.4	-78.9	231.2	-33.5	-58.3	41.4	35.5	

RUN/POINT		Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	28/30	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.174	Blade 3, r/R=0.325	Blade 3, r/R=0.325	
MEAN	-3885.4		-6302.6		-3894.5		-6581.8		-3447.2		-1302		
RMS	689.9		816.4		684		923.8		763.5		439.2		
1/2 P-P	1220.3		1551		1249.7		1706.5		1376.4		928.8		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	96.2	-308.7	973	170.6	5.5	74.4	145.1	1102.3	143.9	943.7	362.3	388.2	
2nd	-169.3	788.7	127.6	-510.4	197.9	-826	-167.8	598.9	-127.1	443.1	-23.4	153.1	
3rd	324.2	257.4	-139.4	177	293.9	302.8	-3.6	170.7	0.2	110.7	-13.9	-30	
4th	-79.5	-37.9	88.7	45.8	-81.7	-49.6	22.3	28.4	7.8	42	-49.9	94.5	
5th	-94.8	13.5	141.1	15.4	10	-115.7	6.6	139.6	13.9	71.9	103.7	-197.6	
6th	-11.4	7.9	11.3	-34.3	-9.7	-5.6	-11.1	12.7	-9.2	4.2	6.5	-22.8	
7th	-6.1	-14	-5.5	-9.7	-8.3	2	-12.4	-19.9	-14.9	-17.7	-25.7	3.2	
8th	-35.6	-38.4	-33.5	-12.2	-32.1	-31.9	-33.6	-11.6	-23.8	-10.3	-3.3	0.6	
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Pitch Link, lb			
	28/30	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 4, r/R=0.400	Blade 1			
MEAN	-1673.2		-350.7		-3659.8		-7969.8		-391.1		-52.1		
RMS	435.8		272.1		782.7		909.4		239.2		30		
1/2 P-P	955.2		408.7		1457.6		1659		372.7		57.6		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	415.1	149.7	-121.9	335.5	85.6	473.5	-1097.9	-227	-293	-120	-8	-38.1	
2nd	23.7	-7.7	-4.7	104.8	-230.4	815.9	214.5	-514.5	3.3	-85.9	0.5	6.7	
3rd	-26.3	-71.8	-42.6	61.3	-341.1	-347.7	166.5	39.5	38.5	39.1	9	-5.2	
4th	-54	132.5	28	55.7	-103.2	-49.7	19.3	-19.8	37.1	46.9	2.7	10.7	
5th	105.4	-337.6	4	-8.5	119.3	-19.4	-160.6	-27.7	6	2.2	-1.5	1.8	
6th	25.4	-40	-4.3	0.1	10.3	14.8	-7.1	9.9	3.3	3.3	-1.3	-1.1	
7th	1.9	16.9	-1.8	1.8	4.9	10.4	-15.4	-32.6	2.8	1.6	0	-1.8	
8th	25.7	12.2	3.3	2.7	-65.9	-19.1	-34.2	-6.4	6.9	3.1	0.5	0.1	

RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.144	Flap Bending, in-lb Blade 1, r/R=0.167	Flap Bending, in-lb Blade 1, r/R=0.215	Flap Bending, in-lb Blade 1, r/R=0.280	Flap Bending, in-lb Blade 1, r/R=0.325	Flap Bending, in-lb Blade 1, r/R=0.570
28/30						
MEAN	-3780.6	-2034.1	-610.5	-60.7	-13.8	-496.3
RMS	866.2	492.2	160.1	295.1	363.7	659
1/2 P-P	1635.8	879.6	330.4	592.9	719.2	1243
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-761.4	80.7	-438.1	-94.6	-149.2	117
2nd	218.4	-798.9	148.6	-455.3	54.3	-93.6
3rd	-316.6	309.3	-176.5	159.8	-8	7
4th	-101.6	-45.7	-47.6	-22.3	9.8	13
5th	-4.4	105.8	4.6	42.2	23.9	-36.4
6th	-6.1	-18.2	1.2	-7.2	8.8	6.4
7th	11.6	0.2	6.9	2.5	0.3	2.3
8th	-34.4	-49.9	-4.3	-5.3	29.7	56.3
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800	Flap Bending, in-lb Blade 1, r/R=0.900	Chord Bending, in-lb Blade 1, r/R=0.144	Chord Bending, in-lb Blade 1, r/R=0.570	Torsion, in-lb Blade 1, r/R=0.400
28/30						
MEAN	-479.1	-436.1	-108	-8656.2	-2613.7	-348.8
RMS	619.2	522.8	322.2	915.9	375.5	232.3
1/2 P-P	1275.6	1091.8	767.8	1695.7	885.9	365.7
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	319.1	-521.3	200.8	-364	53.9	-77.9
2nd	98.5	453.9	142.3	307.6	106.1	71.8
3rd	281.3	37.1	303.1	132.5	254.7	118.7
4th	-89.4	-85.3	-177.5	-80.7	-151.3	1
5th	-49.5	261	-34.4	264.8	-67.5	169.3
6th	-11.6	-45.6	45.7	-12.2	70.8	-20.7
7th	39.2	-27.9	15.5	-17.9	18.9	26.1
8th	35.8	38.8	111	126.9	64.7	158.4

RUN/POINT		Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	16/26	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.174	Blade 3, r/R=0.325	
MEAN		3260.2	753.2	3441.8	51.9	2552.5	1094.7				
RMS		659.8	7844.6	655.6	6843.5	5819.7	4001.4				
1/2 P-P		1254.9	11525.5	1265.9	10042.7	8618.6	6880.9				
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-70.5	594.1	-6441.5	-8912.5	-466.5	-312	6869.9	-6680.3	5915.5	-5609.4	
2nd	453.4	229.2	-995.9	-931.3	-485.7	-309.5	985.1	835.8	775.9	691.2	
3rd	-281.9	-386.4	-50.8	-313.6	-337.1	291.7	-119.7	119.5	-39.8	140.2	
4th	27.5	60.8	127.9	261.1	39.4	42.1	142.2	-17.3	95.6	-294.1	
5th	111.8	37.5	-58.7	2	-16.3	71	-159.8	-88.6	-102	-27.3	
6th	-24.7	-8.6	-3.9	-8.1	24.7	12.2	6.2	-7.1	5.5	4.5	
7th	-5.5	7.3	-50.6	-20	4.1	3.4	-14	16	-14.8	1.8	
8th	22.1	-43.6	-74	-193.1	15	-33.5	-93.9	-211	-66.9	-193.4	
									-21	-115.1	
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Pitch Link, lb		
	16/26	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 4, r/R=0.400	Blade 4, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1		
MEAN		-874.3	-477.9	3430.7	-1187.5	-591.5	-591.5	-591.5	-39.7		
RMS		3253.7	284	563.1	7654.9	261	261	261	28.3		
1/2 P-P		6057.9	443.3	1042.1	11324.3	419.8	419.8	419.8	52.3		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	2480.5	-3043.9	-301.7	222.4	159.3	-460.2	6541.4	8521.5	-175.1	-301.8	
2nd	450	134.5	-42	128	388	240.3	-922.4	-848.3	73.3	-84.8	
3rd	640.3	214.8	8.3	-12.8	276.7	310.8	-18.4	297	-3	5.3	
4th	-376.6	-2161.4	1.2	45.2	37.4	36.3	146.1	42.2	5.4	37.9	
5th	196	384.3	-11.1	0.2	-76.9	0.9	88.4	-2.2	-6.4	-12.3	
6th	-2	57.4	2.9	0.9	-24.7	-6.3	8.4	22.3	-0.6	2.8	
7th	0.8	-32.7	3.4	-0.2	2.3	-4.5	1.3	25.5	-1.3	-3.1	
8th	46.7	72	-4.3	3.9	17.6	-47.3	-50.1	-213.7	-6.5	4.8	

RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.144	Flap Bending, in-lb Blade 1, r/R=0.167	Flap Bending, in-lb Blade 1, r/R=0.215	Flap Bending, in-lb Blade 1, r/R=0.280	Flap Bending, in-lb Blade 1, r/R=0.325	Flap Bending, in-lb Blade 1, r/R=0.570
MEAN	3399.2	2446.3	1275.5	943.7	776.3	432.8
RMS	533.8	303.6	138.7	254.9	327.2	616.7
1/2 P-P	1042.5	618.2	271.5	545	640.5	1239.7
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-107.7	260.1	-73.1	135.5	81.3	-112.5
2nd	-481.3	-291.4	-279	-165.9	-108.8	-11.6
3rd	300.9	-265.2	174	-148.2	18.5	-39.9
4th	29.7	30.6	17.2	4.7	-28.9	-9.7
5th	43.7	-57.2	19.1	-18.8	-19.7	23.9
6th	26.1	9.5	12.1	3.9	-5.4	-6.9
7th	-4.5	-4.1	-0.5	0.3	5.9	7.5
8th	15.4	-32.6	-2.9	-13	-31	13.8
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800	Flap Bending, in-lb Blade 1, r/R=0.900	Chord Bending, in-lb Blade 1, r/R=0.144	Chord Bending, in-lb Blade 1, r/R=0.570	Torsion, in-lb Blade 1, r/R=0.400
MEAN	-305.3	-814.8	-1075.9	-1274.2	-2087.2	-470.6
RMS	735.3	725.2	490.1	7374.6	2712.2	268.5
1/2 P-P	1420.9	1480	1281.8	10856.2	5437.8	429.7
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	275.7	-664.9	187.8	-559.4	-72.5	-252.7
2nd	-526	5.6	-609.6	-24.2	-452	-30.9
3rd	-306.2	353	-341.3	289.5	-297.1	153.7
4th	10.7	110.3	87.1	197.3	73.2	142.8
5th	148.9	-158.4	176.6	-185.9	179.9	-78.1
6th	50.7	36.7	40	-23.1	4.2	-40.6
7th	2	-5.4	-12.9	23.9	-34	-14.6
8th	-21.5	-6.2	-85.1	57.8	-85.7	84.2

RUN/POINT		Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
		Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.174	Blade 3, r/R=0.325	
MEAN	1794.8	-910.4	4932.8	1919.2	-1562.2	1112.2	4001.5	540.5	2798.6		
RMS	385.9	4932.8	7432.4	401	4702.5	6148.8	6148.8	4921			
1/2 P-P	794.5	7432.4	815.5	7205.6							
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-28	160.7	-4003.9	-5621.4	-71.1	-180.3	5165.4	-4063.4	4443.6	-3400.5	
2nd	315.2	169.6	-743	-566.3	-327.1	-237.3	732.9	597	586.3	485.5	
3rd	-237.6	-272.3	-20.3	-227.2	-235.2	239.4	-210.8	-0.1	-133.9	19.2	
4th	15.1	46.2	85	127.7	20.3	30.2	76.6	-36.3	43.9	-221.5	
5th	74.5	-2.9	-51.9	30.8	13.6	55.5	-51.7	-31.4	-23.2	4.8	
6th	-20.2	-7.4	-18.8	0.1	21.3	8.8	14.4	-7.7	10.9	2.4	
7th	-0.8	10.5	-9.7	20.1	8	4	-0.1	44	-6	31.1	
8th	16.6	-39.1	-134	-164.9	14.8	-26.4	-124.7	-183.4	-100.2	-172	
RUN/POINT		Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Pitch Link, lb	
16/25	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 4, r/R=0.400	Blade 4, r/R=0.400	Blade 4, r/R=0.400	Pitch Link, lb	
MEAN	-1107.9	-508.9	2015.1	-2806.6	-595.2						
RMS	2284.6	235.6	343.4	4566	222.9						
1/2 P-P	4518.8	385.8	682.7	6984.2	371.2						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	1920.4	-1993.1	-232.8	210.7	176.7	43.3	3871.6	5084	-178	-240.8	
2nd	352.7	57.9	-56	88.5	248.3	187.6	-655.4	-537	79	-49	
3rd	358	76.9	9.6	2.5	238.3	205	-14.3	229.7	11.6	-1.4	
4th	-299.4	-1501	-3.8	32.4	20.9	26.8	83.9	10.4	-3.9	25.2	
5th	157	254.9	-10.4	3.9	-39.4	16.5	34.4	-45.7	-4.8	-10.6	
6th	-5.5	28	2.2	-0.5	-22.5	-7.3	-13.5	6.8	-2	2.1	
7th	-20.1	-40	2.5	0	-0.6	-4.3	31.2	39.4	-0.7	-1.1	
8th	48.4	63	-2.1	4	12.6	-35.5	-109	-173.9	-3.4	4.8	

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
		Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.570	
MEAN	1968.1	1555.4	911.2	772.4	641.3	286.8	294.3	286.8	294.3	-627.5	
RMS	495.9	285.2	109.6	228.4	495.9	554.7	588.4	554.7	588.4	128.2	
1/2 P-P	1003.3	590.6	251.4	495.9	1099.1					206.5	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-439.6	234.6	-271.6	103.2	-20.3	-118	96.1	-273.4	142.5	-345.8	
2nd	-300.6	-224.9	-172	-125.5	-71.1	-4.3	-21	71	-20.5	93.8	
3rd	217.3	-220.7	127.1	-123.3	12.4	-31.7	-60.2	32.8	-92.5	-173.1	
4th	17.2	26.2	11	8.5	2.7	-17.1	-2.7	-41	-8.9	66.2	
5th	4.7	-47.5	2.8	-16.7	-2.7	21.4	-9	51.4	-9	-46.4	
6th	19.9	9.7	9.9	5.1	-3	-3.3	-15.1	-15	-20.5	63.2	
7th	-8.4	-1	-0.9	1	9.7	3.6	16.6	3.8	-18.3	5.9	
8th	4.6	-26.3	-5.5	-10.1	-21.3	14	-34.2	31.1	-28.2	33.4	
RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
16/25	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.400		
MEAN	-343.1	-767.7	-941.5	-3045.2	-2265.5					-501.5	
RMS	629.5	578.8	360.9	4373.9	1891.8					221.6	
1/2 P-P	1184.2	1152.7	902.7	6625.3	3888.9					384	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	271.7	-572.7	190.2	-455.3	-48.8	-177.9	-4415.2	4219.3	-1211.5	1530.2	228.2
2nd	-438.7	27.6	-468.6	7.6	-323.7	1	769.6	464.4	364	-3.3	-69.6
3rd	-242.2	327.1	-270.7	277.5	-236.3	158.9	251.8	20.2	-434.1	-14.3	-3.3
4th	-25.9	63.6	14.1	120.8	4.2	81.4	68.1	65.3	-139.2	-1669.3	4.4
5th	54.3	-133.9	65.3	-156.7	82.8	-71.2	38.6	45.9	-89	-263.5	37.2
6th	36.9	25.9	27	-19.3	-4.2	-32.1	14.8	-14.2	-3.3	17.9	-6
7th	7	-5.4	10.1	8.1	-2.9	-21.1	24.3	15.1	2	-13.9	-1.6
8th	-14.7	-1.8	-53.3	50	-51.8	68.1	-117.3	-173.1	128.9	159.1	-0.2

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144				Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144				Chord Bending, in-lb Blade 3, r/R=0.325	
		SINE	COSINE	SINE	COSINE		SINE	COSINE	SINE	COSINE	SINE	COSINE
MEAN	286.8	-2288.1	343.6	-2770	7.9	109.3						
RMS	507.7	3784.4	472.5	3679.7	3095.8	2133						
1/2 P-P	955.8	5816	909.1	5663.7	4757.2	3646.3						
HARMONIC												
1st	452.8	427.1	-2898.6	-442.4	334.3	4292.8	-2816.3	3652.7	-2312.5	2348.1	-1729	
2nd	186.8	177.6	-501.7	-551.9	-187.7	-233.8	457.9	651.6	363.6	524.8	265.5	230.7
3rd	-186.2	-125.2	-53.9	-123.2	-92.1	182.7	-115.8	45.9	-63.7	35.4	148.7	-2.9
4th	23.7	30.1	64.6	42.6	25.6	18.5	40.7	-32.7	13.9	-132.7	-127	-598.1
5th	63.1	7.2	-58.6	19.1	3.7	43.9	-34.1	-47.1	-14.9	-6.4	43.9	170.6
6th	-19.6	-2.4	2	-3	18.2	1.2	11	15.5	13.3	1.6	2.6	18.8
7th	2.5	13.3	-6.7	30.5	7.7	-2.5	21	48.8	10.1	36.7	-11.3	-13.1
8th	10.9	-27.5	-106.3	-88.2	7.4	-16.6	-115.1	-103.7	-95.9	-96.5	-43.1	-60.5
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400				Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144				Pitch Link, lb Blade 4, r/R=0.400	
16/24												
MEAN	-1284	-502.5	516.4	-4130.8	-573.5	-96.3						
RMS	1658.2	215	326.8	3412.5	199.6	29.2						
1/2 P-P	3136.1	358.1	607.1	5232.7	343.4	54.6						
HARMONIC												
1st	1603.7	-1398	-192.2	215.6	-291.7	-176.8	2747.8	3899.8	-181.4	-198.3	31.9	-17.5
2nd	223.9	78.5	-55.5	70.5	115.6	202.4	-426.4	-513.3	70.4	-40	-17	7.1
3rd	240.4	-33	10.5	7.4	181.4	54.9	49.6	160.8	15	-8	-0.4	-3.7
4th	-237.6	-814	-2.2	25.4	26.3	9.5	46.1	-17.1	-1.2	21.8	-2.4	2.9
5th	71.7	247.2	-1.3	5.9	-33	4.8	52.1	-30.5	-6.5	-3.7	-2.4	-0.3
6th	3.5	7	3.3	-0.3	-22.1	-0.1	1.1	-3.7	-3.7	1.2	0.6	-0.4
7th	-19.6	-39.8	0.3	-0.7	-4	-7.9	21.6	23.7	-1	0	-0.1	1.1
8th	39.4	34.8	-0.9	1.9	5.5	-29.2	-91.2	-94.7	-2.2	3.1	0.4	-1.4

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
MEAN	433.7	603.8	525.6	606.1	513.4	154.4							
RMS	301	191.7	164.2	230.8	276.5	484.4							
1/2 P-P	605.6	385.9	297	478.2	527.7	934.4							
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-108.8	-236.9	-62	-186.9	52.9	-216.9	117.1	-283	149.4	-331.1	238.4	-549	
2nd	-137	-230.8	-72	-127.1	-31.5	-8.9	-11.4	67.8	-19.4	92.2	-165.1	139.9	
3rd	87.6	-162.4	54.7	-91.2	8.5	-21.8	-18.7	28.9	-32.9	56.6	-153.4	197.2	
4th	26.8	15	15.8	6.1	1.9	-8.1	-7.5	-22.6	-15.8	-24.4	-34.6	-5.9	
5th	15.7	-40.9	8.9	-12	-2.1	19.8	-12.4	47.7	-16.3	58.7	-11.3	3.3	
6th	21.5	2.9	11.3	2.9	-1.7	0.8	-14.7	-4	-20.5	-4.8	6.7	5.5	
7th	-5.6	4.6	2.2	4.8	13.9	4.7	20.2	3.8	17.2	2	-21.9	-10.3	
8th	5.3	-13.6	-2.8	-3.5	-13.7	11.1	-24.2	21.2	-21.2	21	34.1	-18.3	
RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.725		Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Chord Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400	
MEAN	-340.5	-671.5	-751.1	-4489	-2403.7	-502.8							
RMS	532.6	475.2	279.9	3151.6	1250.5	195							
1/2 P-P	1067.3	962	745.8	4824.3	2819	333.8							
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	246.7	-485.4	164.1	-368.8	-40.9	-120.5	-3309.4	2889	-941.3	1050.6	182.5	-182.7	
2nd	-334.6	68.9	-338.3	40.2	-214.8	13.4	463.1	510.2	240.5	-7.9	-71.4	57.6	
3rd	-165.4	319.7	-195.6	302	-164.8	195.2	146.2	-40.7	-258.2	63.9	-9.6	-3.8	
4th	6.8	45	36.7	81.2	14.4	61.1	28.9	28.8	-189.1	-915.5	-4.4	25.4	
5th	52	-118.7	70	-139.8	71.4	-71.4	13.2	62.2	-10.2	-216.4	6.8	-7.8	
6th	39.4	5.9	30.3	-19.7	10.7	-25.4	-3.3	-11.6	12.4	15.9	3.5	-1	
7th	6.4	-0.3	16.8	12.9	6.7	-4.3	-8.8	10.7	12.1	1.1	0.4	-1.1	
8th	-12.5	-2.1	-39.9	37.4	-41.7	53.7	-102.1	-95.8	106.4	91.2	-0.8	0.8	

RUN/POINT		Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb
16/23		Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	-273.5	-2955.2	-225.6	-3444.3	-581.5	-126.3			
RMS	308.3	2357.6	294.8	2331	1968.5	1430.3			
1/2 P-P	529.8	3825.2	520.7	3780.7	3214.2	2536.6			
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	238.3	-70.6	-1944.7	-2620	33.9	145.1	2589.4	-1913.7	2222.4
2nd	181	261.3	-438.9	-441.9	-179.6	-310.9	389.9	513.8	303.1
3rd	-109	-85.5	-65.3	-80.4	-61.1	108.2	-87.3	65.6	-58
4th	20.7	21.3	19.8	31.8	15.7	18.2	22.7	-12.4	22.2
5th	53.5	-32.6	-44.7	62	49.1	39.4	-93.9	-40.1	-42.1
6th	-16	5.6	7.1	-2.3	15.4	-8.1	2.8	2.9	8.3
7th	-3.2	3.7	-0.8	17.4	3.9	6	11.6	26.6	5.9
8th	10.8	-31.3	-128.7	-71.6	7.4	-19.3	-124.5	-86.1	-107.4
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Pitch Link, lb
16/23		Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1	Blade 1
MEAN	-1390.9	-493.1	-36.8	-4810.4	-561.3	-100			
RMS	1156.8	213	336.4	1971.5	195.1	24.2			
1/2 P-P	2255.4	346.8	651.3	3196.9	323.5	47.8			
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	1062.1	-1058.1	-178.4	224.6	-73.3	330.7	1795.8	2040.8	-185.4
2nd	171.8	28.6	-50.5	72.1	114.2	285.2	-383.3	-393.4	61.7
3rd	111.7	-7.2	12.5	12.4	106.2	22.4	70.3	114.4	15.9
4th	-24.3	-503.8	0.1	17.7	16.7	7.2	29.4	-2	2.7
5th	247.9	184.1	2.9	2.2	-22.9	38.3	40.8	-68.3	-1.5
6th	16.9	-12.5	3.1	-1.4	-17.8	7.6	14.5	-1.5	-4.5
7th	-9.8	-19.5	0.9	-0.6	3.4	1.4	29.4	25.6	0.6
8th	46.1	29	-1.5	2.5	-0.4	-28.8	-116.8	-85.7	-1.8

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
16/23	Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	
MEAN	-116.2	262	383.7	539.2	456.8	85.5					
RMS	493.8	293.6	135.3	207.2	257.6	473.2					
1/2 P-P	911.7	503.7	253.6	410.6	486.1	863.8					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-597.6	-40.6	-357.3	-72.7	-74.5	-163.5	73.4	-258.4	119.9	-311.9	
2nd	-131	-307.9	-67.5	-172.1	-29.2	-21.5	-10.8	73.2	-18.2	104.1	
3rd	45.4	-96.6	29.8	-55.5	5.4	-18.6	-6.9	10	-15.6	28	
4th	1.8	10.3	12	4.8	4.3	-5.7	-1.9	-17.7	-9.2	-19.2	
5th	-21.4	-42	-4.8	-14.1	12.8	20.5	29.9	50.3	33.9	60.2	
6th	15.5	-4	7.9	-0.1	-1.7	3.6	-12.3	5.1	-15.6	4.8	
7th	-4.4	-4.5	-0.9	-1.2	2.6	2.7	3.9	5.4	1.9	7.3	
8th	1.8	-20.1	-2.8	-4.7	-10.2	16.5	-18	32.5	-15.1	31.3	
RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
16/23	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.400	Blade 1, r/R=0.400	
MEAN	-361.2	-654.5	-683.3	-5197.2	-2478.9	-496.3					
RMS	502.7	430.4	235.1	1797.1	874.4	190.7					
1/2 P-P	940.8	871.5	568.4	2884.5	1788.5	325.8					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	263.3	-492.6	181.7	-368.3	-19.4	-110.8	-1509.4	1940.6	-594.1	819.1	
2nd	-296.8	119.6	-293.5	78.1	-181.8	21.2	415.5	396.5	203.3	-44.8	
3rd	-86.3	243.3	-108.6	233.9	-93	155.4	98.2	-68.8	-147.9	48.8	
4th	-2.4	42.1	15.9	75.3	-5.8	62.6	18.4	25.4	-10.1	-348.6	
5th	-36.3	-128.4	-29.5	-158.5	5.5	-98	80.1	51.6	-155.3	-188.7	
6th	36.8	-6.4	30.2	-22.1	18	-18.4	-16	-9.3	21.7	9.9	
7th	9.1	-7	-3.2	7.5	-22.5	1.6	14.9	25	-1.4	-29.3	
8th	-8.2	4.8	-24.9	52.4	-30.1	65.9	-122.3	-89.6	126.7	79.2	

RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	-974.5	-3480.4	-940.2	-3963.4	-1039.8	-292.8	-292.8
RMS	369	2154.9	377.7	2182	1824.3	1288.6	1288.6
1/2 P-P	633.2	3414.4	657.5	3459.4	2890.5	2148.3	2148.3
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	280.4	306.3	-1130.6	-2768.6	-367	174	2839.8
2nd	125.9	257	-306.7	-431.1	-124.9	-296.6	269.2
3rd	-114.8	-26.1	-78.2	-51.6	1.8	115.9	-63.9
4th	10.2	12.6	33.6	31	9	8.2	31.2
5th	20.6	-13.7	-8.9	45.9	21.3	6.9	-45.2
6th	-16.3	6.2	17.6	-9.3	14.3	-3.3	0.9
7th	1	4.5	-25.5	5.3	2.9	-0.6	-15.4
8th	9.6	-30.5	-101.5	-84	1.1	-23.2	-105.1
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Pitch Link, lb	
	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1	
MEAN	-1448.7	-479.9	-727.1	-5290.2	-545.7	-107	
RMS	1013.3	206.7	242.5	1753.2	184	28.4	
1/2 P-P	1899.2	335.1	500.1	2839.1	301.5	53	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	1126.6	-719.2	-162.2	229	-108.8	-35	916.6
2nd	145.3	16.5	-43.7	64.4	67	283	-264.2
3rd	112.1	-50.1	11.3	8.7	121.3	-34.8	71.7
4th	-224.5	-325.9	-1.1	20.2	9.4	-2.1	34.5
5th	119.5	67.2	2	1.9	4	17.4	6.6
6th	24	-6.6	2.4	0	-14.5	7.1	12.4
7th	8.1	-12.6	-0.5	-0.3	-0.7	-0.5	-10.9
8th	45	33.2	-0.8	2.5	4.2	-37.6	-98.2

RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.144	Flap Bending, in-lb Blade 1, r/R=0.167	Flap Bending, in-lb Blade 1, r/R=0.215	Flap Bending, in-lb Blade 1, r/R=0.280	Flap Bending, in-lb Blade 1, r/R=0.325	Flap Bending, in-lb Blade 1, r/R=0.570
MEAN	-802.6	-162.4	208.9	461.9	395.6	28.8
RMS	283.7	169	121.6	204.3	248.4	451.4
1/2 P-P	543.9	310.8	209.4	391.7	449.2	812.4
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-222.3	-73.3	-127.5	-91.9	18.1	-162.2
2nd	-76	-294.7	-34.3	-164	-15	-21.1
3rd	-8.8	-103.2	-0.3	-59.4	3.4	-15.7
4th	9	3.5	7.6	2.3	4	-1.8
5th	-8.5	-3.4	-0.4	0.8	10	5.6
6th	14.5	-7.4	8.6	-2.5	0.5	3
7th	-3.4	1.2	1.9	0.4	8.6	0.2
8th	9.9	-20	0.1	-3.5	-14.6	18.7
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800	Flap Bending, in-lb Blade 1, r/R=0.900	Chord Bending, in-lb Blade 1, r/R=0.144	Chord Bending, in-lb Blade 1, r/R=0.570	Torsion, in-lb Blade 1, r/R=0.400
MEAN	-354.1	-607.4	-593.4	-5722	-2531.6	-483.7
RMS	456.6	375.6	201.4	1514.7	720.8	182.5
1/2 P-P	802.4	713.9	513.1	2508.3	1572	300.9
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	248.9	-451.3	163.8	-329.8	-23	-89.4
2nd	-262.8	129.9	-247.1	88.7	-146.5	25.7
3rd	-46	238	-69.9	235.4	-61.5	160.7
4th	-14.8	29.6	-12.3	52.4	-30.4	49.5
5th	-9.5	-35.5	5.1	-48.5	22.7	-28.6
6th	34.8	-11.3	32.9	-22.3	24.2	-19
7th	14	-5.3	11.9	-4.4	-5.6	-10.1
8th	-10.4	6.7	-39.6	56.6	-48.9	67.5

RUN/POINT		Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
		Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.174	Blade 3, r/R=0.325	
MEAN	-2464.5	-4555.4	-2463.8	-5057.6	-2031.8	-693.5					
RMS	436.5	1308.3	492	1454.8	1202	859.9					
1/2 P-P	785.7	2245.1	898.6	2426.2	1963.8	1545.7					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	345.8	391	-191.6	-1788	-538.8	254.1	2000.5	-72.7	1657.8	-25.8	1140.6
2nd	35.3	302	-138.7	-341.3	-34	-333.8	115	392.9	87.1	304.2	78
3rd	-79.9	54.5	-57	-13.8	74.4	74.6	-16.6	62.2	-0.4	49.5	42.3
4th	-4.8	-8.1	43.7	36.8	-7.7	-17.8	39.5	-7.2	-7.6	-32.5	-227.9
5th	-17.8	1.4	20.5	8.8	6.8	-29.1	-12.8	20.6	-6.3	9.2	32.8
6th	-5.6	3.3	-0.6	-3.7	4.9	-3.6	4.4	2.1	6.1	-0.5	1
7th	6.4	2.8	18	26.2	0.6	-7.7	29.7	23.8	18.1	16.7	-12.6
8th	-0.3	-56.9	-107.6	-106.4	0.4	-37.4	-107	-120.3	-87.2	-108.6	-48.1
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Link, lb	Pitch Link, lb		
16/21	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 1	Blade 1		
MEAN	-1615.7	-437.2	-2205.9	-6335.2	-495.6	-113.4					
RMS	696.9	203.4	305.1	971.4	177.6	28.7					
1/2 P-P	1481.3	321.4	613.3	1705.7	283	50.6					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	821.1	-283.8	-133.1	243.9	-190.4	-146.5	-55.8	1309	-204.7	-130.2	30.1
2nd	79.4	4.1	-25.4	64.8	-13.6	317.2	-110.7	-326.2	30.2	-53.5	-9.8
3rd	49.9	-49.9	10.8	5.4	84.1	-115.4	53.6	50.5	3.7	-8.7	0.6
4th	-342.9	-199.3	4	22	-2.7	-25.1	37.2	1.5	2.1	16.5	-1.2
5th	40	-57.4	0.6	-0.8	35.2	-2.6	-28	-17.6	-0.1	0.4	2.7
6th	0.2	-11.5	2	0	-7.8	3.4	6	-6.7	-2.2	1.5	-0.6
7th	-21.7	-15.6	-1.1	-0.1	-3.2	0.9	29.3	8.1	0	2.6	-0.1
8th	36.7	49	0.1	3.3	-11.5	-49.4	-94.8	-113	0.2	4.7	-0.7

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	16/21	Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.370	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570
MEAN	-2279.3	-1077.6	-164.1	302.6	274.2	-77.9					
RMS	279.4	172.6	126.8	194.3	232.3	413.4					
1/2 P-P	565.7	353.7	228.9	378.1	426.9	768.9					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-104.7	-151.9	-50.2	-138.1	42.2	-163.1	110.2	-223.7	14.1	-261.8	274.4
2nd	8	-323	17.1	-181	7.4	-29.7	-3.2	63.9	-16.5	95.3	-145.6
3rd	-83.8	-71.2	-40.9	-42.9	1.6	-11.1	35.3	11.2	47.1	24.3	48.1
4th	-3.5	-18.6	1.1	-8.6	4	0.6	6.2	6.7	3.6	11.4	-18
5th	10.6	17.9	8.3	8.9	7.8	-4.3	7.3	-17.2	3.2	-20.3	-14.8
6th	7	-2.3	4.8	-0.4	1.9	1.4	-2.4	2.2	-4.3	2.9	0
7th	-0.1	7	2.5	3.6	6.8	-1.4	8.3	-5	4.4	-4.4	-1.2
8th	0.3	-36.6	-1.3	-7.6	-5.4	33.5	-10.3	63.5	-7.2	61.7	31.4
RUN/POINT	Flap Bending, in-lb	Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
16/21	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.400	
MEAN	-337.7	-482.4	-377.6	-683.14	-2645.8	-440.2					
RMS	403.2	330	184.9	719.3	485.7	176					
1/2 P-P	673.1	658.6	450.2	1459.7	1086.3	281.4					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	234.8	-396	149.1	-289.7	-6.6	-72.4	-923.8	-27.8	-409.2	251.9	123.1
2nd	-180.1	173.2	-149.5	123.4	-77.1	34.2	99.5	333.9	91.8	-40	-33.9
3rd	19.6	210.4	0.5	225.8	2.9	162.1	36.5	-60.1	-26.5	98.5	-6.5
4th	-34.7	7.8	-51.9	13.2	-62.7	26.3	14.5	32.3	-234.8	-301.3	2.1
5th	6	32.2	26.3	33.2	26.3	19.9	1.1	-20.2	-23	23.7	16.7
6th	18	-9.1	12.2	-8.7	12.6	-7.1	-9.3	-9.9	16.9	13.3	-1
7th	10.8	0	5.6	-4.2	-6.1	-2.3	16.8	15.5	-16.9	-17.1	1.6
8th	-4.6	19.2	-12.9	97.5	-22.8	106	-102.3	-114.9	104.9	102.6	0.4

RUN/POINT		Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
16/20	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	-3633.9	-5510.2	-3634.8	-6011.6	-2889	-1060		
RMS	322.4	352.5	308	491.9	409.1	286.8		
1/2 P-P	642.9	839.3	609	997	830.8	642.5		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	201.5	-137.4	296.5	-163.1	-33.2	123.6	340.9	438.9
2nd	21.1	335	-72.7	-245.2	-11	-364.1	37.3	308.6
3rd	-14.6	165.9	-43.3	7.2	178.8	12.8	-6.4	51
4th	-5.3	-18.5	51.6	15.8	-7.7	-22.4	11.4	0.2
5th	-37.4	20.6	50.9	-31.8	-12.6	-47.1	14.6	64.9
6th	-2.1	11.5	3.7	3.3	-0.7	-15.5	6.9	9.9
7th	7.3	3.3	17.5	-3.4	0.9	-6.1	27.2	-0.9
8th	-7.3	-34.2	-29.2	-25.2	-0.9	-25	-34.1	-38.8
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Torsion, in-lb	Pitch Link, lb	
16/20	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 4, r/R=0.400	Blade 1	
MEAN	-1760.4	-398.2	-3350.6	-7263.1	-447.9	-110.9		
RMS	307.6	207.8	409.8	548.1	183.2	21		
1/2 P-P	797.8	328.7	806	1129.2	295.8	38.8		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	281.2	-34.5	-109.2	262.8	-31.1	391.9	-565.8	-379.6
2nd	29.3	-8.3	0.8	68.6	-24.3	354.2	-43.1	-243.6
3rd	1.4	-56.9	7.4	2.1	15.7	-217.6	49.5	30.6
4th	-207.7	-55.4	15.2	17.5	-11.1	-27.2	22.2	7
5th	-30.1	-151.7	-0.5	-1.2	44.3	-24.6	-61.6	22.8
6th	-7.5	-23.9	2.2	-1	-5.4	15	2	-18.6
7th	-20.1	1.2	-2.4	-0.4	-4.7	-0.7	19.9	-18.5
8th	15.9	22.1	1.2	2.7	0.6	-23.7	-22.2	0.5

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
16/20	Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.570	
MEAN	-3443.5	-1803.6	-462.9	170.4	171.2	-184.4					
RMS	519	302.3	113.8	162.5	208.4	391.9					
1/2 P-P	989.4	567.3	208.2	309.2	397	699					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-616.9	-24.6	-359.7	-61.6	-93.9	-118.9	59.6	-190.4	106.1	-228.6	272.1
2nd	11.2	-345.1	20.2	-195.4	14.3	-33.8	9.1	68.2	0.3	103.4	-88.8
3rd	-179.2	-15.2	-95.4	-13.2	-4.7	-5.3	63.1	1.6	88.1	6.9	148.9
4th	-7.8	-19.4	-1.4	-8.9	3.2	2.4	5.7	11.3	3.5	16.2	-14
5th	19.3	33.9	12.1	14	6.8	-12.9	1.1	-37.2	5.5	-44.2	-18.1
6th	4.9	-11	5	-2.5	3.9	7.9	0.9	17.3	-0.1	19.5	-2.7
7th	0.9	5.2	4.3	2.5	8.5	-2.3	8.6	-5.1	4.9	-4.1	-11.3
8th	-3.1	-9	-0.6	-1.8	2.3	9	2	17.5	2.3	16.3	5.2
RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
16/20	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.400		
MEAN	-328.8	-384.7	-191.2	-7806.8	-2734.6	-397.3					
RMS	375.5	302.7	161.5	627.1	295.1	178.7					
1/2 P-P	680.8	574.7	356.9	1237.5	804	288.6					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	233.4	-352.4	154.7	-259.3	25.9	-65.9	630.7	-521.6	-82.1	75.1	99.6
2nd	-82.3	225	-53.3	168	-22.3	53.7	48.3	235	42.3	-57.8	-7.4
3rd	93.7	156.1	71.3	188.3	60.8	148.5	16.8	-43.5	32.1	85.8	-3.6
4th	-20.9	-4.1	-47.1	-13	-62.1	7.4	43.7	27.5	-272.6	-130.7	11.9
5th	15	81.3	35.6	85	20.1	46.5	-13.7	-52.9	20.1	114	2.2
6th	15.9	-24.9	22.8	-11.9	33.9	-1.7	-12.4	10.1	19.3	-25.2	0.9
7th	15.1	-0.2	11.4	-9	1	-2.9	9.9	-15	-10.9	15.2	2.2
8th	2.5	7.3	4.1	31.2	-7.3	33	-20.9	-26.9	19.8	24.6	0.9

RUN/POINT		Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
		Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.174	Blade 3, r/R=0.325	
MEAN	2492.3	-1074	2650.7	-1814	920.1	451.1					
RMS	913.4	7630.8	818.6	6971.3	5894.3	3965					
1/2 P-P	1751.4	11418.8	1516.4	10398.3	8830.1	6574.4					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	428.3	1032.7	-5962.6	-8867.2	-928.1	203.5	7416.2	-6332.9	6343.5	-5272	
2nd	357.7	232.1	-943.3	-1062.4	-389.8	-300.3	912.3	1024.6	726.9	846.1	
3rd	-322.5	-310.7	-113.8	-272.8	-267.8	320.6	-184.6	165.9	-98.4	155.9	
4th	54.8	54.3	88.1	175.2	60.5	29.6	65.8	-68.7	7.3	-276.3	
5th	147.7	-21	-55.4	65	25.8	102.5	-97.5	-64.1	-39.5	-2.7	
6th	-35	13.2	1.8	6.4	30.1	-10.4	-20.5	-12.3	-12.6	0.8	
7th	-0.7	13.4	-23.6	-4.1	9.9	3.1	-18.6	55.7	-20.7	34.6	
8th	1.1	-66.6	-258	-169.3	-19.3	-41.3	-263.1	-167.4	-218.8	-173.3	
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Pitch Link, lb		
35/12	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 4, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1		
MEAN	-1031	-491.8	0	-3044.6	-598.3	-36.3					
RMS	3092.2	275.2	0	7628.9	252.6	30.2					
1/2 P-P	5597.2	452.4	0	11413.2	427.2	56.6					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	2630.2	-2832.8	-273.9	232.6	0	0	6064.6	8806.8	-191.3	-272.6	
2nd	441.3	156.2	-57.2	123.6	0	0	-860	-1063.4	86.4	-83.7	
3rd	577.3	63.6	1.1	-15.6	0	0	56.2	249.4	-2.8	4.2	
4th	-583.6	-1715.8	19.3	50.3	0	0	46.5	-0.7	17.4	34.4	
5th	323.4	411	-17.7	0.1	0	0	48.4	-46	-9.6	-17.8	
6th	33.7	49.8	3.6	-1.8	0	0	-1.3	17.8	-2.6	3.5	
7th	-27.2	-45.9	1.2	-3.5	0	0	-1.3	42.1	-5.2	-0.5	
8th	108.5	54.1	-2.1	10.4	0	0	-247.9	-180.9	-2.8	11.5	

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
35/12		RMS		RMS		RMS		RMS		RMS		RMS	
MEAN	2578.4	1940.8		1070.6		833.3		690.3		337			
RMS	533.1	312.5		233		297.9		358		635.7			
1/2 P-P	1003.6	588.9		453.7		669.5		748.3		1261.1			
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	434.4	-162.6	260.2	-126.1	204.9	-223.3	171.8	-319.4	192.9	-385.9	235.4	-706.4	
2nd	-344.9	-271.8	-195.9	-152.6	-79.6	-5.8	-22.4	82.6	-21.3	111.4	-183.3	195.8	
3rd	244.8	-280.9	142.5	-159.9	11.7	-40.2	-72.9	42	-107.6	86	-315.1	271.9	
4th	49.3	32.9	26.6	6.7	0.3	-27.3	-24.8	-58.9	-39.3	-65.1	-51.4	-15.5	
5th	9.4	-110.2	6.7	-41.8	-4.6	45.1	-19.1	117.4	-18.5	142.5	-8.2	12.6	
6th	30	-13.4	13.6	-5.5	-9.4	0.2	-33.2	2.1	-41.4	5.1	23	10.8	
7th	-13.2	-3.9	-0.1	-2.3	16.2	0.5	26.7	1	25.3	1.2	-29	-7.8	
8th	-9.5	-50.6	-13.6	-12.4	-23.1	41.6	-28	84.1	-19.2	84.8	55.5	-91.6	
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725		Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Chord Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400		
35/12													
MEAN	-361.6	-820.9		-1026		-3360.5		-2187.7		-488.4			
RMS	764.8	738		481.8		7242.3		2579.2		260.6			
1/2 P-P	1567	1537.6		1199.1		10720.3		5137.2		447.6			
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	278.4	-655.7	181.4	-522.5	-79.9	-197.4	-7805	6480.7	-1818.2	2132.4	266.2	-210.2	
2nd	-524.6	80.2	-565.6	42.3	-387.5	8.3	957.6	918.9	469.5	8.1	-70.9	102.3	
3rd	-242.5	449.7	-288.9	404.7	-261	247.9	274.6	-87.7	-570.4	-33.3	7.3	21.8	
4th	45.4	75.5	131.2	145.2	92.3	100.2	13.5	92.6	-175	-2131.2	23.8	53.9	
5th	70.6	-309	91.9	-372.9	137.2	-227.7	55.9	63.7	-146.7	-373.1	27.9	-3.7	
6th	70.4	-1.8	32.1	-59.4	-13.1	-56.2	-1.9	-6.5	-0.3	28.3	2.8	-4.8	
7th	3.1	-12.1	12.3	21	-26.4	-8.8	6.4	-5.8	29.3	4.3	-3.7	4.5	
8th	-29.7	12.2	-35.6	132.1	-11.7	165.3	-255.6	-185	289.4	177.1	0	7.5	

RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	1618.2	-2123.7	1731.4	-2567.2	249.5	279.8	
RMS	730.5	5790.2	643.1	5629.6	4750.2	3187.1	
1/2 P-P	1382.1	8813	1197.1	8686.2	7355.2	5351.4	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	519	727.3	-4388.3	-6812.4	-646.2	366.7	6457.4
2nd	263.6	213.3	-731.9	-782.8	-270.6	-268.9	716.4
3rd	-282.8	-217.6	-105.9	-228	-184.6	283.7	-203.7
4th	55.7	53.1	75	94.1	58.2	24.6	39.9
5th	94.3	-30.6	-47.5	80.1	28.8	57.7	-77.5
6th	-29.2	3.3	9.4	6.1	20.2	-3.9	0.4
7th	-1.4	13.2	11.6	-9.3	6.7	4.5	18.1
8th	-8.8	-70.9	-272.7	-147	-16.3	-46.7	-311.4
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Torsion, in-lb	Pitch Link, lb
	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1	
MEAN	-1081.4	-504	0	-3943.7	-594.7	-50.5	
RMS	2453.8	242.5	0	5638.3	226.8	25.9	
1/2 P-P	4559.5	403.5	0	8643.6	393.5	47	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	22285.9	-2107.8	-226.3	229	0	4308.7	6615.3
2nd	358.1	97.2	-59.8	94.1	0	-635.3	-791.3
3rd	429.3	-14	0.1	-4	0	72.2	224.5
4th	-448.7	-1279.6	10.8	32.8	0	26.8	-35.1
5th	264.1	246	-10.4	5	0	26.5	-75.4
6th	7.1	29.8	1.9	-2.1	0	-15.4	1.5
7th	-36.9	-23.1	-0.4	-1.3	0	28.2	3.5
8th	117.1	56.4	1.1	7.5	0	-268.1	-176.8

RUN/POINT		Flap Bending, in-lb				Flap Bending, in-lb				Flap Bending, in-lb			
	35/11	Blade 1, r/R=0.144		Blade 1, r/R=0.167		Blade 1, r/R=0.215		Blade 1, r/R=0.280		Blade 1, r/R=0.325		Blade 1, r/R=0.570	
MEAN	1718	1404.8	854.5	735.6	613.7	248.8							
RMS	403.8	245.6	209	277	329.8	593.1							
1/2 P-P	708.9	426.2	399.6	596.6	671.7	1199.1							
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	166.7	-276.9	98.9	-206.1	126.3	-247.6	133.6	-322	157.5	-379.1	213.5	-665.8	
2nd	-223.6	-254.6	-122.8	-141.2	-51.5	-7.4	-16.4	76.2	-20.8	104.7	-175.1	189.8	
3rd	172.3	-246.5	101.3	-138.9	7.3	-31.4	-53.2	43.9	-79	85.6	-255.2	269.2	
4th	46.1	32.5	25.1	9.9	0.5	-21.1	-21.4	-48.8	-35.2	-53.6	-47.9	-10.7	
5th	-4.2	-69.2	1.6	-25.8	3.5	29.2	3.8	75.3	4.2	92.9	-7.9	12	
6th	25.7	-5.1	12.6	-2.5	-3.7	-2.8	-23.1	-4	-29.2	-2.6	14.1	12.2	
7th	-9.3	-3.7	3.7	-2.2	20.4	1.1	29.6	2.5	27	4.2	-30.2	-8.9	
8th	-12	-47.2	-14.4	-10.5	-20.5	42.4	-23.6	85.3	-14.4	84.6	50	-96.1	
RUN/POINT		Flap Bending, in-lb				Flap Bending, in-lb				Chord Bending, in-lb			
	35/11	Blade 1, r/R=0.725		Blade 1, r/R=0.800		Blade 1, r/R=0.900		Blade 1, r/R=0.144		Blade 1, r/R=0.570		Blade 1, r/R=0.400	
MEAN	-388	-795.3	-939.4	-4279.8	-2261.3								
RMS	676.7	635.2	410.4	5377.4	1983.8								
1/2 P-P	1364.6	1328	1089.1	8172.5	3964.1								
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	250.9	-592.8	166.5	-453	-67.6	-153.4	-5887.8	4682.8	-1427.8	1623.4	216.9	-204.5	
2nd	-435.9	98	-450.7	62.1	-298	25.9	717.3	692.9	354.6	-36.7	-74.4	77.8	
3rd	-221.6	431.8	-273.9	398.7	-244.6	259.4	239.9	-68.1	-445.3	31	5.2	7.3	
4th	38.3	81.3	103.9	147.7	63.5	109.3	6.1	48	-197.7	-1597.4	16.5	37.9	
5th	18.8	-217.4	37.3	-264.2	83.9	-153.8	63.4	40	-160.9	-277	15.4	-10.4	
6th	61.2	0.8	28	-50.6	-5.2	-48.5	-2.6	8.1	-2.3	7.9	1.6	-4.1	
7th	8.2	-13	20.1	10	-11.8	-19.5	22.1	-20.9	-17	19.1	2.7	0.7	
8th	-25.2	12.3	-27.8	132.9	-11.9	162.2	-280.2	-168.2	291.3	152.9	2	6.9	

RUN/POINT		Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
		Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	931.6	-2657	1017.7	-2950.7	-118.3	192.2		
RMS	401.7	4142.9	360.6	4085.4	3466.5	2425.9		
1/2 P-P	769.5	6388.9	597.2	6407.8	5486.3	4323.2		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	266.9	236.3	-3492.3	-4615.8	-181.8	161	4490.2	-3500.2
2nd	197.7	224.1	-553.4	-587	-206.7	269.4	675.8	457.8
3rd	215.3	-199.7	-74.9	-164.5	-167.8	217.2	-155.2	53.7
4th	41.7	35.7	60.9	66.4	40.7	18.7	43.8	-62.4
5th	86.4	-29	-76.9	78.1	30.6	48.3	-75.4	-55.6
6th	-34.1	9.8	6.4	0.5	28.4	-10	3.1	3.5
7th	1.9	12	0	31.9	3.5	-5.7	18	50.4
8th	-3	-72.1	-247.9	-173.7	-8.8	-44.2	-286.1	-189.2
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Pitch Link, lb
		Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1
MEAN	-1099.9	-503.6	0	-4435	-585.3	-58.8		
RMS	1944.7	234.3	0	3939.8	220.6	22.6		
1/2 P-P	3763.4	385.6	0	6115.4	377.9	41.7		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	1677.5	-1736.1	-208.6	232.8	0	0	3403.2	4328.9
2nd	310.5	47.3	-57.4	88.3	0	0	-463.5	-585.3
3rd	296.1	-19.5	10.6	5.2	0	0	63.2	175
4th	-172.6	-1140.5	4.6	25.9	0	0	18.2	-29.1
5th	266.6	288.4	-6.3	2.8	0	0	66.5	-88
6th	20	7.4	2.8	-2.8	0	0	5.3	10.3
7th	-20.9	-36.3	-0.9	-1.3	0	0	9.4	7.9
8th	108.5	64.9	-0.9	6.3	0	0	-230.4	-186.4

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
MEAN	1024.4	973.9	679	653.5	548.4	548.4	548.4	548.4	548.4	548.4	548.4	183.1	
RMS	354	209.4	152.4	249.6	303.2	303.2	303.2	303.2	303.2	303.2	303.2	563.9	
1/2 P-P	776.6	442.5	328.5	572.4	625.7	625.7	625.7	625.7	625.7	625.7	625.7	1117.9	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-293.3	-65.7	-178.2	-82.3	5.8	-191.5	92	-295.6	129.3	-357.2	218.2	-641.2	
2nd	-150	-264.8	-79.3	-146.9	-35.8	-9.9	-15.6	75.9	-23.8	105.1	-190.9	192	
3rd	154.5	-184	90.9	-103.7	8.2	-27.4	-43.2	27.9	-65.3	59.6	-217.7	210.2	
4th	30	24.1	17.8	8.3	2.9	-14.6	-10.8	-34.5	-21.2	-36.4	-42.5	-0.1	
5th	-10.5	-47.2	-2	-15.8	4.9	23.6	8.9	56.4	12.2	69.7	-6.3	7.3	
6th	23	-9.1	10.5	-4.1	-5.6	-0.3	-23.6	0.9	-29.2	4.8	15.8	10.8	
7th	-8.5	6.7	2.9	3.7	18.9	0.5	28	-3.5	24.9	-4.1	-30.3	-3.7	
8th	-4.8	-53.8	-11.7	-12.4	-25.6	46.6	-34.5	93	-25	94.3	65.1	-101.2	
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800	Flap Bending, in-lb Blade 1, r/R=0.900	Chord Bending, in-lb Blade 1, r/R=0.144	Torsion, in-lb Blade 1, r/R=0.400								
MEAN	-392.9	-751.3	-846.8	-484.7	-484.7	-484.7	-484.7	-484.7	-484.7	-484.7	-484.7	-503.1	
RMS	632.4	578.2	359.3	3740.9	3740.9	3740.9	3740.9	3740.9	3740.9	3740.9	3740.9	215	
1/2 P-P	1235	1189.2	945.4	5743.6	5743.6	5743.6	5743.6	5743.6	5743.6	5743.6	5743.6	368.9	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	255.6	-592.8	174.1	-462	-44.8	-156.1	-3622.1	3759.5	-1008.9	1389.6	197.2	-203	
2nd	-406.2	125.7	406.5	91.4	-254.6	35.7	544.6	509.6	318.8	-76.8	-72.7	76.3	
3rd	-176.9	361.5	-212.9	343.2	-186.2	224.4	187.3	-49.7	-321.2	19.5	-10.4	1	
4th	1.4	60.9	50.7	110.1	23.8	89.1	1.7	46.2	39.3	-1331.1	6.5	26.2	
5th	11.6	-164.7	22.2	-199.1	64.9	-116.2	68.1	79.8	-156.3	-286	9.8	-8.5	
6th	55.2	-10.9	22.2	-52.5	-7.7	-49.4	3.2	-25.4	-1.7	38.3	5.9	-2.2	
7th	8.3	-8.9	20.5	8.8	-11.8	-8.2	-12	2.9	11.6	-3.8	-1.5	1.7	
8th	-29.2	18.3	-49.5	144.6	-39.8	172.7	-243	-189.5	265.3	176.4	1.5	4.4	

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144				Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144				Chord Bending, in-lb Blade 3, r/R=0.325	
		SINE	COSINE	SINE	COSINE		SINE	COSINE	SINE	COSINE	SINE	COSINE
35/ 9	MEAN	290.9	-3122.2	362.1	-3443.3		-3443.3	-558.5		-558.5	70.4	
	RMS	463.5	3629.6	446.5	3599.4		3599.4	3038.6		3038.6	2097.4	
	1/2 P-P	814.1	5721.5	807.6	5796.3		5796.3	4941		4941	3692.3	
	HARMONIC	COSINE	SINE	COSINE	SINE							
	1st	331.9	391.9	-2616.5	-4321.9	-376.6	270.4	4256.7	-2629.9	3630.8	-2166.1	2357.1
	2nd	251	245.5	-561.6	-600.3	-257.8	-284.6	518.8	667.4	413.8	540.1	290.7
	3rd	-118.2	-120.1	-95.3	-92.6	.92	130.1	.90.8	.87.2	.54.1	.72.1	100.9
	4th	27.8	25.5	37.8	42.6	27.9	11.9	39.3	.46	.51.6	-129.7	70.4
	5th	62.7	-33.8	-52.7	75.3	50.4	23.9	-61.5	-62.3	-17.2	-28.5	149.2
	6th	-22.3	7.2	19	0.5	16.2	-7.8	.9	.19.2	.9	.14.3	5.4
	7th	1.3	2.3	2.7	-21.7	0.5	-3.1	-4.8	7.4	-7.2	-0.2	-12.6
	8th	-3.3	-51.8	-213.7	-144.3	-8.9	-40.7	-242	-149.7	-199.8	-149.8	-112
	RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400				Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144				Pitch Link, lb Blade 1
35/ 9	MEAN	-1114.6	-497.1	0	0		-4896.4	-574.6		-574.6	-66.6	
	RMS	1620.4	227.8	0	0		3414.5	211.8		211.8	26.9	
	1/2 P-P	3201.2	368.2	0	0		5382.9	358.3		358.3	48.6	
	HARMONIC	COSINE	SINE	COSINE	SINE							
	1st	1611.4	-1358.2	-194	236.7	0	0	2517.4	4037	-202.8	-198.1	27.1
	2nd	241.3	63.2	-47.9	84.2	0	0	-450.6	-570.7	.71.2	-58.5	-16.3
	3rd	175.4	0.4	8.1	11.8	0	0	100.6	123.2	16	-13.1	1
	4th	48.2	-757.5	7.5	18.8	0	0	24.1	3.5	1.6	16.4	-0.9
	5th	239	206.7	0.4	0.9	0	0	38.9	-54.3	-0.4	-4.1	-0.9
	6th	22.9	-14.8	0.7	-1.8	0	0	10.8	15.5	-3.2	4	-0.1
	7th	-11.8	-5	-2.6	-1.4	0	0	3.5	-23.7	-0.4	-0.9	-0.5
	8th	88.4	57.4	-0.1	4	0	0	-203.3	-171.6	-0.6	5.9	-0.9

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.370	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.400	Blade 1, r/R=0.400	
MEAN	389.4	578.4	513.8	572.7	480.6	104.2					
RMS	297.3	181.9	161.2	241.7	289.1	520.8					
1/2 P-P	595.8	359.8	311.1	516.6	573.2	963.4					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-113	-141.6	-66.4	-131	48.1	-204.3	107.3	-293.2	139.3	-349	242.8
2nd	-189.6	-291.1	-102.1	-162.4	-41.5	-14.5	-11.4	79.3	-14.9	110.1	-158
3rd	75.3	-97.7	45.9	-56.7	6.1	-20.6	-16.7	7	-27.4	27.2	-118.6
4th	17.1	11	11.9	3.6	4.4	-8.8	-3.9	-20.8	-12	-21.2	-33.9
5th	-25.3	-29.4	-6.5	-8.9	14.7	18.6	32.9	38.9	38.6	47.1	-11.4
6th	15.2	-9.9	9.2	-3.5	1.8	2.4	-8.5	5.1	-12.4	7.4	4.7
7th	-1.1	1.1	5	0.6	13.1	-0.7	16.4	-3.4	12.4	-2.9	-19.7
8th	0.5	-33.5	-9.6	-6.2	-25.7	31.8	-36.4	61.9	-29.7	63.5	57.5
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb
35/ 9	Blade 1, r/R=0.725		Blade 1, r/R=0.800		Blade 1, r/R=0.900		Blade 1, r/R=0.144		Blade 1, r/R=0.570		Blade 1, r/R=0.400
MEAN	-414.4	-723.6	-758.8	-5325.7	-2298.3	-499.7					
RMS	566	494.2	287.2	3180.1	1292.7	205.6					
1/2 P-P	1038.9	984.8	732.6	5031.6	2720.5	356.8					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	274.8	-557.1	185.1	-424.5	-34.4	-129.9	-341.7.1	2791.5	-982.7	1082.9	181.8
2nd	-344.2	149	-343.4	108.7	-220	36.5	536.3	555.3	270.8	-56.6	-65.3
3rd	-103.8	279.7	-139.2	272.3	-122.2	181.2	118	-75.7	-171.7	28.5	-5.4
4th	-9.9	44.2	14.8	81.8	-10.1	73.3	-7.1	65.9	192.8	-938	1.5
5th	-42.8	-115.8	-37.5	-142.1	7.3	-83.6	57	57.4	-148.6	-212.8	1.8
6th	38.4	-17.3	21.3	-45.8	7.2	-41.4	-6	0.1	-3.6	-4.9	5.4
7th	15.2	-9.8	12.9	0	-13.4	-8.4	5.1	-32.4	0.1	28.3	1.1
8th	-20.4	14	-49.5	98.7	-53	118.3	-207.1	-168.1	222.1	155.4	-0.3

RUN/POINT		Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
		Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.174	Blade 3, r/R=0.325	Blade 3, r/R=0.325	
MEAN	-288		-3654.3		-224.7		-3970.7		-1033.3		-115.1		
RMS	334.4		2523		324.1		2579.3		2185.5		1588.4		
1/2 P-P	706.9		4214.1		734.2		4331.6		3687.1		3056.3		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	279.5	107.3	-1756.3	-3021.7	-102.2	217	3101.1	-1778.5	2654.3	-1466.2	1764.5	-1212.3	
2nd	120.7	274.2	-351.1	-481.4	-110.7	-315.3	330.9	499	272.1	392.4	228.4	132.9	
3rd	-134.2	-107.9	-70	-66.4	-79.6	140.1	-71.4	58.3	-41.2	46.7	91.8	-12.1	
4th	28.2	13.7	20.3	60.3	27	3.7	26.7	-36.1	29.6	-110.6	25.5	-507.1	
5th	11.5	-23.6	-14.1	83.1	30.3	-13.8	-63.1	3.8	-26.1	8.4	127.7	37.1	
6th	-21.7	6.4	11.4	6.3	18.3	-8.9	-10.7	-4.3	-6.3	-2.9	-5.7	9.3	
7th	-0.9	4	3.5	-15.3	1.6	0.2	3.2	-3	1.2	-9.3	-4.2	-26.8	
8th	0	-51.3	-191.1	-117.3	-6.3	-40.9	-213	-137.9	-174.2	-137	-92.7	-66.1	
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb			
35/ 8	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 4, r/R=0.400	Blade 1	Blade 1	Blade 1	
MEAN	-1201.6		-482.6		0		-5418.9		-554.4		-70.5		
RMS	1301.3		221		0		2303.7		203.1		24.4		
1/2 P-P	2745.4		363.2		0		3879.4		342.4		46		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	1236.4	-1065.3	-172	243	0	0	1629.1	2745	-207.8	-177.5	21.1	-21.6	
2nd	215	-15.2	-48.6	76.1	0	0	-251.1	-430.2	61.3	-54.4	-13.3	8	
3rd	154.4	-42.8	15.1	16	0	0	72.9	95.9	20.5	-15	-0.9	-4	
4th	-11.2	-674.9	4.7	16.1	0	0	21	11.5	1.3	14	-1.9	1.2	
5th	202.5	43.8	0.7	1.7	0	0	-12.9	-72.3	-0.7	-3.8	-1.5	1.6	
6th	11.7	6.3	1.1	-3.5	0	0	4.9	8.1	-3.6	4.7	0.3	-0.3	
7th	-8.6	-7.5	-1.5	-1.1	0	0	13.9	-22.6	-0.6	-0.4	-0.4	-0.9	
8th	86.1	51.1	0	3.3	0	0	-179.4	-146.9	-0.9	5	-1	-0.9	

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.370	Blade 1, r/R=0.400	Blade 1, r/R=0.444	Blade 1, r/R=0.570	Blade 1, r/R=0.570
MEAN	-181.4	223.6	371	511.8	435.1	61.6				
RMS	386.3	234.2	149.1	230	278.6	523.9				
1/2 P-P	755.7	436.4	289.7	461.3	551.7	978.4				
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-391.2	-100.7	-233.5	-110.2	-26.2	-190.3	80.6	-284.8	119.9	-341.7
2nd	-50.8	-322.1	-18.3	-180.7	-10.4	-23.5	-9.7	74.8	-21.7	108.1
3rd	57.4	-119.2	36	-69.2	4	-23.9	-14.3	9.7	-23.1	31
4th	15.1	2.5	11.7	-2.1	5.8	-11.5	-0.8	-20.9	-7.9	-20.4
5th	-20.1	5	-4.4	2.6	15.2	0.9	31.3	-4.5	34.3	-4.8
6th	17.4	-11.1	8.4	-3.8	-3.2	2.8	-17.8	7.2	-22	10
7th	-4.5	-2.7	2.6	-0.6	10.6	2.1	13.5	2.9	11	3.9
8th	3.8	-35.3	-7.8	-7.7	-26.9	28.8	-40.5	57.9	-33.7	60.6
RUN/POINT	Flap Bending, in-lb	Flap Bending, in-lb	Flap Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb			
35/ 8	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.400			
MEAN	-405.4	-686.1	-684.1	-5870.9	-2380.5	-486.7				
RMS	554.5	468.7	270.2	2099.4	1101.5	197.1				
1/2 P-P	986.9	964.4	748.6	3625.8	2539.5	332.6				
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	254.7	-565.2	170.2	-422.8	-25.7	-119.2	-2136.1	1943.8	-712.4	893.6
2nd	-312.1	185.5	-290.4	140.4	-162.5	52	315.1	444.9	230.2	-97.7
3rd	-90	271.5	-124.6	271.5	-102.9	182.8	93.8	-40.9	-151.2	36.5
4th	-2.8	59.8	19.1	100.9	-10.3	96.3	-10.5	70.8	165.2	-866.1
5th	-28.5	-31	-6.9	-48.1	32.4	-25.8	74.6	2.4	-164	-49.8
6th	49.1	-25	35.4	-52.7	31.5	-51.8	-4.9	6	16.2	-4.8
7th	18.4	-16.8	12.7	-4.2	-15	-11.7	18.2	-29.6	-7.6	31.9
8th	-21.2	6.5	-54.1	91.2	-68	116.9	-176.5	-146.8	194.3	129.9

RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	-1042.2	-4056.5	-993.1	-4364.5	-1386.9	-1386.9	-201.2	-201.2
RMS	336.8	1790.4	329.7	1898.1	1600.4	1600.4	1157.9	1157.9
1/2 P-P	632	2885	636.8	3139	2651.4	2651.4	2088.7	2088.7
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	294.4	87.9	-1060.6	-2218.7	-113.4	236.9	2397.7	-1026.3
2nd	112.6	324.4	-276.7	-456.3	-97.4	-353	290	479.5
3rd	-81.5	-6	-84.6	-37.3	17.3	89.5	-30.7	82.9
4th	33.2	7.1	7.5	17.8	30.1	1.1	6.2	-18.6
5th	29.7	-16.6	-24.8	46.6	23.8	3.1	-38.5	-17
6th	-11.5	16.4	6	-6.2	10.7	-17.7	-7.5	5.5
7th	2.1	5	8.1	26.7	0.4	-4.8	11.6	31.2
8th	-15	-51.5	-191.1	-69.4	-18.2	-37	-203.9	-82.5
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Pitch Link, lb
	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1
MEAN	-1210.7	-468.5	0	-5756.3	-5756.3	-5756.3	-536.4	-78.3
RMS	914.4	216.9	0	1549.2	1549.2	1549.2	195.8	25.5
1/2 P-P	1812.8	353.7	0	2546.2	2546.2	2546.2	321.9	46.5
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	990.3	-715.8	-158.6	246.6	0	0	913.8	1914.3
2nd	151.4	-3.8	-39.9	76	0	0	-204.3	-209.3
3rd	72.3	-58.5	14.3	8.3	0	0	91.6	417.5
4th	-1.8	-297.1	10.8	16.1	0	0	4.2	5.3
5th	121.3	76.9	2.6	0	0	0	-0.6	-51.2
6th	10.4	-20.6	1.2	-2.8	0	0	12.7	-4.3
7th	-14.2	-21.5	-2.3	0.5	0	0	10.4	10.2
8th	77	29.1	2	3.3	0	0	-184.2	-86

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb							
	Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.370	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570
MEAN	-925.4	-234.4	184.6	433.7	374.1	0.3					
RMS	398.6	239.6	139.2	214.8	259.7	477.2					
1/2 P-P	726.4	425.7	258.5	451.3	525	865.2					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-408.9	-112.1	-240.9	-116.4	-33.4	-179.6	78.4	-263.8	117.4	-313.5	248.3
2nd	-41.7	-354	-12.9	-199.7	-6.6	-31.3	-4.4	73.4	-13.9	109	-142.8
3rd	-38.3	-67.7	-17.1	-42.2	0.5	-18	19	0.8	23	16.1	-0.5
4th	23.6	2	14.9	0.6	5	-5.8	-3.9	-11.5	-13	-10.6	-34.7
5th	-14.3	-10.8	-1.9	-3.8	12	6	24.2	12.3	25.8	16.9	-14.2
6th	5.8	-16.4	4.4	-6.3	1.6	5.8	-4.2	15.4	-5.7	19.7	1.1
7th	-2.4	3.7	3.6	1.3	11.8	-2.2	15.6	-4.8	11.8	-4.2	-5.3
8th	-10.4	-41.2	-5.4	-7.1	-2	39.8	0.1	77.2	3.6	76.1	22.2
RUN/POINT	Flap Bending, in-lb	Blade 1, r/R=0.725	Flap Bending, in-lb	Blade 1, r/R=0.800	Flap Bending, in-lb	Blade 1, r/R=0.900	Flap Bending, in-lb	Blade 1, r/R=0.144	Chord Bending, in-lb	Blade 1, r/R=0.570	Torsion, in-lb
35/7											
MEAN	-401	-632.5	-581.4	-6263.9	-2405.4	-473.1					
RMS	489.3	411.3	231.4	1366.4	720.9	191.4					
1/2 P-P	871.9	860	627.1	2255	1620	317					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	252.9	-494.2	169.2	-366.3	-14.4	-98.6	-1404.2	1201.2	-556.8	632.7	146.3
2nd	-241.8	198.1	-218.2	145.5	-118.3	46.6	253.4	410.5	153.1	-84.5	-51.1
3rd	-18.6	245.1	-48.9	260.4	-39.9	185.2	62	-80	-59.3	84.7	67.4
4th	17	36.2	26.8	59.2	-7.8	62.8	-18.8	39.4	78.7	-425.1	-3.2
5th	-28.1	-62.3	-13.7	-89.2	12.1	-64.6	38.6	25.9	-82.7	-97.3	5.9
6th	32.1	-33.2	28.9	-42.3	32.6	-34.1	-5.2	-6.2	10.7	-7.9	13.9
7th	14.7	-11.6	12.5	-8.2	-11.3	-5.7	5.5	10.6	-2.9	-8.3	-2.1
8th	-4.8	21	11	121.1	6.5	142.2	-191.7	-90	200.9	79.4	2.6

RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	-2305.5	-4897.3	-2279.6	-5210.5	-2158.6	-2158.6	-488.9	-488.9
RMS	383.5	1023.6	398.1	1224.8	1022.8	1022.8	752.6	752.6
1/2 P-P	740.7	1898	829.9	2340.1	1897.5	1897.5	1444.9	1444.9
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	316.8	183.4	-55.8	-1353.4	-278.6	264.8	1644.2	33.9
2nd	75.5	362.4	-161.6	-363.6	-64.2	-373.8	172	383.9
3rd	50.8	66.5	-86.5	17.4	89.1	-38	11.1	88.4
4th	-8.4	-7.4	24.9	22.6	-14.5	-11	21.9	-10.8
5th	-29.1	-42	40	43.6	53.1	-46.8	-63.7	69.2
6th	-6.4	9.2	12.7	-14.3	0.4	-11.3	-2.7	8.9
7th	-2.6	-4.9	-0.3	13.6	-5.6	1.8	-5.3	15.1
8th	-33.2	-59.6	-217.1	-54.1	-31.6	-32.8	-241	-56.9
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Pitch Link, lb
	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1
MEAN	-1288.1	-429.3	0	-6549.1	-489.1	-489.1	-82.7	-82.7
RMS	618	212.2	0	853.8	188.3	188.3	26.6	26.6
1/2 P-P	1183.5	338.1	0	1807.1	303.4	303.4	49.1	49.1
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	744.7	-253	-127.6	260.5	0	0	-137.2	1089.9
2nd	105.5	-3.7	-14.8	71.8	0	0	-89.3	-359.4
3rd	13.5	-48.8	7.9	7.4	0	0	106.7	23.8
4th	-105.5	-160.2	13.8	8	0	0	25.2	8.6
5th	191	-165.4	1.6	-5.9	0	0	-63.3	-55.2
6th	7.5	-33.3	0	-1.9	0	0	-1.4	-5.5
7th	-2.9	-4.4	-1.9	3.3	0	0	-6.8	14.2
8th	94.1	22.2	3.2	3.3	0	0	-224.3	-66.8

RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.144	Flap Bending, in-lb Blade 1, r/R=0.167	Flap Bending, in-lb Blade 1, r/R=0.215	Flap Bending, in-lb Blade 1, r/R=0.280	Flap Bending, in-lb Blade 1, r/R=0.325	Flap Bending, in-lb Blade 1, r/R=0.570
MEAN	-2168.9	-1008.8	-137.8	285.7	255.7	-116.3
RMS	371.1	221.9	139.9	214.6	252.5	441.8
1/2 P-P	732.4	412.4	275.5	424.1	462.8	863
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-278.4	-139.2	-157.4	-134	-6.5	-172.4
2nd	-22.5	-383.5	-0.2	-218.2	2.8	-39.9
3rd	-108	59.5	-57.6	27.7	-1.5	-5
4th	-22.3	-14.5	-8.3	-7.8	5.9	-1.9
5th	-45.1	31.1	-13.5	12.1	26.1	-8.4
6th	-1.7	-14.5	1.7	-7.4	5.4	1.7
7th	4.5	-2.2	5	-3.8	5.8	-6.4
8th	-13.2	-48.9	-5	-8.1	1.6	48.7
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800	Flap Bending, in-lb Blade 1, r/R=0.900	Chord Bending, in-lb Blade 1, r/R=0.144	Chord Bending, in-lb Blade 1, r/R=0.570	Torsion, in-lb Blade 1, r/R=0.400
MEAN	-412	-539.1	-393.9	-7116.7	-2450.9	-430.6
RMS	434.5	360	229.1	621.7	466.6	184.4
1/2 P-P	780.4	721.9	595.3	1498.1	1195.5	298
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	250.1	-431.5	160	-317.4	0.7	-79.3
2nd	-140.6	230.9	-107.8	169.1	-54.6	51.2
3rd	59.4	156.2	36.8	195.6	35.1	153.7
4th	-40	2.1	-69.1	10.4	-79.3	35.5
5th	-109.6	50.7	-104.2	47.6	-68	25.7
6th	5.9	-36.5	1.4	-36.4	15.1	-29.3
7th	20.9	-15.8	9.1	-15.7	-5.6	-0.6
8th	2.4	28.9	17.4	142.8	-1.6	160

RUN/POINT		Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
		Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	-3683	-5553.2	-3699.7	-5870.1	-2769.9	-703.9					
RMS	667.2	1311.8	780.8	1574	1288.1	821.7					
1/2 P-P	1198.2	2236.1	1394.4	2589.1	2076.9	1367.5					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	24.1	811.9	1084.2	-1442.8	-984.6	-28.7	1819.1	1202.4	1461.2	1033.6	1035.2
2nd	-19.6	428.9	29.6	-355.7	26.2	-445.3	-20.2	373.4	-17.4	276.6	7.2
3rd	93.1	157.8	-58.9	23.3	170.7	.90.1	.29	71.7	.29.9	45.2	.11.6
4th	-13.7	-26.8	11.9	3.4	-20.8	-39.3	7.8	3.2	0.6	-15.6	-41.2
5th	-41.4	-20.9	63.2	22.9	15.2	-64	12.8	51.9	11.6	20.9	37.7
6th	5	15.7	-9.9	-19.2	-9.3	-10.6	14.5	17.3	12.4	9.2	-8.9
7th	-1	-2.2	20.8	12.7	-10.4	1.5	11	22.6	5.1	15	-4.5
8th	-35	-58.3	-99.5	-37.8	-31.5	-32	-111.3	-42.3	-89.9	-42.6	-49.6
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
		Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 4, r/R=0.400	Pitch Link, lb	Blade 1
MEAN	-1368	-391.5	0	0	-7112.6	-442.1	-442.1	-442.1	-442.1	-95.8	
RMS	589.8	217	0	0	1359	194.8	194.8	194.8	194.8	27.8	
1/2 P-P	1140.2	340.8	0	0	2236	316	316	316	316	55.4	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	754.9	193.1	-109.9	274.4	0	0	-1345.9	1303.8	-242.6	-107.3	31.4
2nd	20.2	-0.4	3.9	78.5	0	0	84.3	-342.3	1.9	-70.4	-1.9
3rd	-7.6	-57.7	1.8	8.4	0	0	76.4	11.2	-0.3	-4.5	1.5
4th	-66	-141.6	18.9	10.2	0	0	27.9	24.7	20.6	5.3	2.7
5th	36.6	-176.5	-1.8	-3.8	0	0	-76.2	-26	3.7	-1.3	-1.9
6th	-9.2	-43	0.5	-0.9	0	0	-3.8	-7.7	-0.9	1.1	-0.5
7th	-6.9	-10.4	-2	1.1	0	0	4	14.8	1	1.1	-0.8
8th	51.1	21.2	3.3	3.8	0	0	-96.2	-41.2	3	5	0.4

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
		Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.570	
MEAN	-3520.2		-1845.3		-481.8		142		147.1		-207.8
RMS	450.5		262.6		140.6		203.3		241.3		444.8
1/2 P-P	901.4		521.5		284.9		472.6		506.6		825.3
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	346.6	162.5	224.8	57.2	150.7	-73.9	145.7	-179.8	162.7	-225.7	324.8
2nd	78.2	-445.6	61.2	-255.3	29.5	-54.6	11	69	-0.3	112.3	-98.6
3rd	-185.6	100.9	-101.7	50.9	-3.9	2.2	68.7	-28.3	95.4	-35.7	184.8
4th	-22.4	-31.3	-7.1	-16.3	7.4	1	16.3	16.2	16	23.8	-8.8
5th	-10.6	42	1.7	16.3	21.8	-14.4	38.6	-44.5	38.4	-53.4	-24.3
6th	-6.2	-10.6	0.3	-5.5	7.9	2	11.9	9	12.3	12	-8.2
7th	5.9	-0.2	5.9	-0.8	5.5	-2.2	1.9	-3.2	-3	-0.8	-5.2
8th	-14.9	-48.4	-0.8	-7.6	12.8	48.4	20.3	91.6	21.1	87.5	6.8
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb
35/ 5	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.400	Blade 1, r/R=0.570
MEAN	-363.6		-397.7		-176.9		-7737		-2525.3		-389.9
RMS	414.3		336.9		218.1		1118.4		361.7		188.5
1/2 P-P	821.1		731.6		575.4		1816.7		795.5		308.1
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	252.5	-398	152.2	-299.6	9	-82.4	-902	-1221.6	-402.7	-32.1	97.9
2nd	-57.5	270	-177	192.2	5.5	43.7	-59.2	363.8	24.2	-60.9	-236.8
3rd	127.3	82	116.2	132.6	105.9	115.1	0.5	-73.8	31.7	66.3	-3.1
4th	-46.6	-15.2	-95.4	-23.7	-103.6	14	30.2	20.3	-119.1	-149.5	17.5
5th	-62.7	80.4	-52.3	72.6	-50.4	25.5	3.6	-60	-42.8	118.6	-1.3
6th	-1.1	-33	8.6	-23.3	31.8	-19.5	11.4	-2.5	-12.3	-1	0.3
7th	20.3	-10.8	4.1	-13.4	-5	9.7	10.9	13.3	-18.1	-10.2	-2
8th	10.5	33.8	36.2	137.2	13.9	147.2	-98.5	-38.3	97.3	33.6	-1.4

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
22/15								
MEAN	68.7	-3782.3	123.8	-4430.5	-1450.6	-1038.3	-588.3	
RMS	256	2488	259.8	2682.8	2283.5	1656		
1/2 P-P	556.4	4119.4	564.4	4492.9	3909.2	3159.5		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	51.4	15.2	-1360	-3162.1	-30.4	35.3	3426.1	-1435.2
2nd	48.3	260.4	-262.9	-451.6	-72.6	-275.8	286.1	498.5
3rd	-115.6	-124.5	-98	-105.9	-108.7	132.8	-108.3	111.6
4th	48.6	17.2	20	67	51.5	5.4	37.6	-25.3
5th	72.2	-58.1	-52.1	112.1	61.8	46.2	-120.2	-51.4
6th	-24.9	11.8	40.5	-5.7	22.5	-13.6	-22.5	3.3
7th	-7.5	3.6	9.7	9.3	-2.6	9.1	2.2	23
8th	-20.8	-93.5	-350.2	-141.5	-23.3	-62.9	-367.7	-152.4
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Flap Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1	
22/15								
MEAN	-1585.6	-469.3	0	-5637.5	-543.3	-81.4		
RMS	1389.3	216.9	0	2387.2	202.5	22.3		
1/2 P-P	2925.2	359.5	0	3984.2	345.7	43.1		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	1353.9	-949.6	-175.5	232.2	0	0	1242.5	3065.5
2nd	224.7	9.5	-55.5	74	0	0	-183.4	-409.7
3rd	188.2	-4.6	12.4	6.2	0	0	102.8	130.9
4th	57.2	-833.6	4.8	20.5	0	0	-19.2	3.4
5th	376.8	254.4	-2.9	0.7	0	0	50.4	-115.8
6th	44.7	11.2	1.6	-3	0	0	30.2	10
7th	-10	-18.6	-1.1	-0.2	0	0	-7.7	21.2
8th	142.8	57.2	-0.1	8.2	0	0	-336.1	-167.8

RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.144	Flap Bending, in-lb Blade 1, r/R=0.167	Flap Bending, in-lb Blade 1, r/R=0.215	Flap Bending, in-lb Blade 1, r/R=0.280	Flap Bending, in-lb Blade 1, r/R=0.325	Flap Bending, in-lb Blade 1, r/R=0.570	Flap Bending, in-lb Blade 1, r/R=0.570
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-454.9	117.2	-276.9	20.9	56	-231	73.3
2nd	9	-284.8	15.3	-157.6	-17.8	63.9	-23.6
3rd	82.9	-101.8	50.7	-59.6	-20.2	10.9	-24.6
4th	42.8	3.9	25.6	-1.2	-14.9	-20.8	-16.6
5th	-47.4	-52.5	-14.9	-19.1	47.9	55.6	56.1
6th	23.1	-12.6	11.6	-6.3	-16.6	1.4	-20.1
7th	-0.4	-8.5	4.6	-4.7	10.6	4.4	11.1
8th	-11.3	-72.3	-14.6	-12.5	-25.9	118.5	-27.3
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800	Flap Bending, in-lb Blade 1, r/R=0.900	Flap Bending, in-lb Blade 1, r/R=0.144	Chord Bending, in-lb Blade 1, r/R=0.570	Chord Bending, in-lb Blade 1, r/R=0.570	Torsion, in-lb Blade 1, r/R=0.400
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-440.4	-729.6	-741.7	-6177.7	-2532.9	-475.2	
2nd	591.2	542.2	353.5	2089.5	1136.8	196.7	
3rd	1159.3	1155.5	980.4	3623.1	2752.8	345.9	
4th							
5th							
6th							
7th							
8th							

RUN/POINT		Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
		Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.174	Blade 3, r/R=0.325	Blade 3, r/R=0.325
MEAN	-539.5		-4355.8		-501.5		-4906.2		-1880.2		-743.2
RMS	294.7		1872.8		291.5		2108.5		1794.9		1340.2
1/2 P-P	600.5		3083.1		637.2		3397.4		2951		2493.8
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	201.2	-106.9	-1081.2	-2338.3	46.4	185.6	2698.1	-1084.4	2315.2	-885	1581.5
2nd	18.8	313.1	-256.4	-450.6	-31.6	-329.4	272.8	492.9	228.4	388.4	220
3rd	-83.9	-80.9	-102.7	-66.5	-59.9	107.9	-65.3	98.4	-39.2	73.3	76.1
4th	21.3	8.6	59.3	61	20.6	6.7	30.9	-36	9.4	-114.3	-91.7
5th	3.1	-2.9	9.9	44.9	15.1	-12.2	-49.3	-7.2	-20.5	-2.2	100.1
6th	-30	13.9	28.3	1.2	26.4	-15.1	-19.8	3.1	-14.9	-1.5	9.4
7th	-5.8	8.4	-18.5	1.5	2.9	3.2	-12.1	17.6	-17	7.2	-18.3
8th	-15.3	-64.8	-215.6	-61.5	-24.8	-45.1	-236.8	-68.3	-201.4	-80.3	-100.6
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
		Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 4, r/R=0.400	Blade 1	Blade 1
MEAN	-1636.4		-459.5		0		-6217.2		-527.3		-85.9
RMS	1117.4		214.8		0		1766.5		198.5		23.8
1/2 P-P	2283.9		338.4		0		2845.8		323.3		45.2
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	1129.2	-757.3	-165.3	238.8	0	0	934.6	2246.3	-206.5	-170.8	22.3
2nd	224.6	3	-45.7	72.1	0	0	-157.5	-421.1	58.2	-52.7	-12.7
3rd	153	-30.1	13.7	4.1	0	0	102.2	94.5	11.9	-16.1	-0.4
4th	-177	-674.9	-0.4	14.4	0	0	6	-15.7	-1.7	10.3	-2.3
5th	137.1	56.6	-6.2	-1	0	0	-15.6	-36.4	-1	-8	-1
6th	28.1	-1.9	0.1	-0.2	0	0	22.7	15.8	-1.6	0.6	-0.7
7th	-5	-19.7	-0.6	-0.1	0	0	-9.9	-2.3	-1.3	0.8	-0.5
8th	96.8	26	0.4	5	0	0	-221.7	-83.6	0.8	6	0.6

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
		Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.370	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570
MEAN	-471.5		34.5	-678.5	399.3	387.8	-22.1				
RMS	477.4		286.9	197.7	234.7	267.7	498.7				
1/2 P-P	889.5		527.5	438.2	518.9	565.2	902.5				
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-555.2	-31.2	-333.3	-72.8	52.6	-236.9	68.6	-280.7	102.1	-320.3	246.2
2nd	39.8	-360.8	35.1	-204	-23	62.7	-29.4	76.6	-50.6	107.4	-219.4
3rd	28.9	-80.7	21	-49.4	-3.7	1.3	-5.6	3	-12.7	21.1	-54.8
4th	13.5	-1.2	10.6	-3.8	-3.2	-14.5	-4.1	-16.5	-13.1	-12.5	-28.4
5th	-3.3	24.4	2.2	10.4	15.4	-21.8	18.5	-24.1	19.3	-24.3	-12.1
6th	20.7	-15.4	9.9	-6.8	-18.7	6	-22.9	8.5	-28	12.2	20
7th	-5.7	-4.8	1.4	-2	15.2	5	16.3	5.1	15	8.6	-12.7
8th	-9.3	-46.2	-7.6	-6.2	-9.6	79.3	-9.2	92.4	-2.1	91.3	38
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb
22/14	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.944	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.400	Blade 1, r/R=0.400	
MEAN	-448.5		-695.6		-658.8		-6784.6		-2573.8		-465.2
RMS	549.2		476.5		312.9		1506.5		900.3		193.2
1/2 P-P	976.7		1009.6		902.9		2548.8		2002		319.4
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	270.6	-510.4	182.4	-388.3	-13.4	-118.3	-1683.3	1170.2	-645.2	617.7	154.8
2nd	-322.1	191.3	-271.3	134.6	-133.7	41	217.1	409.2	235.7	-100.4	-60.6
3rd	-63.7	324.4	-101.7	342.8	-82.8	241.3	97.3	-91.4	-135.2	65.8	-11.2
4th	14	39.4	29.8	74	-5.9	80.6	13.1	46.9	-62.4	-767.2	-6.2
5th	-5.4	23.5	29.2	11	56	14.6	50.1	-1.5	-132.5	-32.4	15.7
6th	49.5	-26.1	19.8	-52.5	14.5	-54	-1.8	-2.1	1	4.7	2.5
7th	17.1	-11.9	11.2	23.8	-18.6	27.7	-17.4	-15.7	15.9	15.3	-3.3
8th	-16	24.8	-5.2	150.9	-16.8	186.9	-224.7	-86.3	225.3	67.4	-0.7

RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	-1048.8	-4720.7	-1024.3	-5189.6	-2144.6	-825.5		
RMS	330.5	1100.8	311.5	1324.2	1139.8	909.1		
1/2 P-P	661.6	2045.2	602.4	2427.6	2043.4	1851.3		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	104.1	-290.4	-355.4	-1425.1	216.1	86.8	1752.3	-310.3
2nd	45.4	326.6	-205.8	-375	-51.9	-354.2	228.6	436.7
3rd	-32.3	-33.3	-85.1	-34.6	-13.4	50.5	-28.8	98.2
4th	27.8	0.7	28.3	41	26.5	-5.1	24.3	-23.7
5th	-8.7	11.7	12.1	14.8	-1.2	-24.2	-12	8.7
6th	-13.8	11.4	13.4	8.1	8.9	-12.6	-9.4	6.9
7th	-7	3.2	26.1	-5.3	-0.7	8.6	39.1	3.3
8th	-30.1	-72.4	-195	-15	-24.8	-48.2	-214.9	-32.6
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Pitch Link, lb
	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 4, r/R=0.400	Blade 4, r/R=0.400	Blade 4, r/R=0.400	Blade 4, r/R=0.400	Blade 4, r/R=0.400	Blade 1
MEAN	-1643.8	-445.6	0	0	0	-6539.8	-510	-87.2
RMS	798	210.1	0	965.4	192.2			21.4
1/2 P-P	1767.5	335	0	1826.8	307			41
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	834.2	-454.4	-144.4	247.3	0	0	165	-214.3
2nd	175.4	-3.1	-34	68.9	0	0	-121.6	-372.1
3rd	79.4	-30.9	10.9	4.5	0	0	85.8	59.3
4th	-21.1	-520.9	3	5.5	0	0	-11.8	-0.3
5th	41	-2.4	-4.8	-2.2	0	0	-38	-2
6th	5.5	-10.2	0.4	-1.4	0	0	3.9	9.7
7th	-28.1	-5.2	-0.7	1	0	0	43.3	-8.2
8th	86.4	19.5	1.7	4.7	0	0	-197.5	-46.8

RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.144	Flap Bending, in-lb Blade 1, r/R=0.167	Flap Bending, in-lb Blade 1, r/R=0.215	Flap Bending, in-lb Blade 1, r/R=0.280	Flap Bending, in-lb Blade 1, r/R=0.325	Flap Bending, in-lb Blade 1, r/R=0.570
MEAN	-991.7	-289.4	-733.2	339.2	336.8	-89.2
RMS	571.4	338.7	184.5	219.2	253	477.4
1/2 P-P	1027.1	622.3	366.5	436.4	471.3	889
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-713.7	61.1	-428.7	-19.4	37.9	-224.7
2nd	11.8	-361.7	19.1	-204.4	-12	65
3rd	-17.2	-23.9	-5.7	-18	9.9	-7.8
4th	19.2	-7.2	13.8	-5.3	-5	-7.2
5th	5.9	32.4	6.3	13.2	8.8	-31.7
6th	8.3	-13.3	5.3	-5.3	-3.5	8.2
7th	-0.6	-9	2.8	-3.4	6.5	8.6
8th	-13.2	-38.9	-8	-4.6	0.4	68.1
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800	Flap Bending, in-lb Blade 1, r/R=0.900	Chord Bending, in-lb Blade 1, r/R=0.144	Chord Bending, in-lb Blade 1, r/R=0.570	Torsion, in-lb Blade 1, r/R=0.400
MEAN	-462.7	-668.6	-582.9	-7141.9	-2588.2	-452.3
RMS	504.6	422.4	271.1	710.4	659.2	187.3
1/2 P-P	924.8	880	801	1530.3	1595.5	297
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	262.6	-500.1	177.6	-374.1	-4	-105.6
2nd	-253.3	221.5	-210.4	164.1	-101.8	54.6
3rd	-26.5	247.2	-63.6	270.5	-47.2	197.1
4th	19	33.8	23	66.4	-17.3	83.7
5th	2.6	41.4	34.3	25	47.6	14.1
6th	28.4	-29.4	16.1	-50.2	29.3	-53.8
7th	13.9	-16.7	-0.9	20.6	-26.8	30.6
8th	-9.7	20.7	12.1	128.4	0.8	159.6

RUN/POINT		Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
		Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	-2495.1	-5335.1	-2480.9	-5849.7	-2760.7	-1022.1			
RMS	398.5	553.9	375	773.9	661	536.4			
1/2 P-P	745	1366.4	722.1	1571.3	1336.7	1140.5			
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	307.9	-176.4	189.9	-628.6	36.5	288	952.5	268.7	825.1
2nd	-51.8	393.3	-44.5	-344.5	59.9	-398.1	38.7	385.8	37.1
3rd	72.9	123.5	-91.9	-15.1	137.5	-42.1	-17.2	99	-8.5
4th	-9	-13	52.9	38	-9.1	-17.5	5.3	-4.5	-15.9
5th	-45.2	-19.7	59.3	21	35.9	-59	-22.8	89.8	-9.9
6th	-5.1	5	4.5	6.4	1.4	-10.3	6.2	19.3	4.7
7th	-2.3	-1.3	-0.6	-23.5	0.9	4.7	13.3	-24.2	8.6
8th	-33.4	-49.4	-80.9	-5.1	-23.9	-33.6	-100.1	-14.5	-3.1
									-0.5
									-12.1
									-1.3
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Pitch Link, lb	
		Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1	
MEAN	-1676.2	-406.9	-2294.8	-7075.5	-464	-95			
RMS	494.9	207.2	421	538.8	187.1	23.5			
1/2 P-P	1149.8	320.1	792.7	1190.8	297.4	38.2			
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	556.6	-134.5	-115.9	260.5	-164.3	310.1	-362.4	526.5	-226.7
2nd	94.9	0.3	-14	63	-115.7	412.2	39	-324.5	18.1
3rd	16.1	-59.3	-0.6	1.1	-63.7	-171.1	94.6	42.8	-4.2
4th	-170.6	-165	7.3	13.2	-17.2	-15.6	-0.7	-11.6	7.2
5th	75.8	-189.4	-2.8	-0.8	70.9	12.6	-76.5	-16.6	1.8
6th	-0.9	-26.1	2.7	-0.6	-0.2	12.1	-2.7	-5.4	-2.1
7th	-15.2	15.2	-1.8	0	4.9	0.5	21.3	-35.9	0.7
8th	44.1	11.6	2.6	3.9	-21.6	-34.1	-88.6	-24.2	2.6
									-0.4
									-1.1

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325	
MEAN	-2416	-1171.6	-874	183.9	181.2	214.9	245.5	211.8	245.5	206.3	-206.3
RMS	521.7	313.1	350	409	409	409	470	470	470	448.9	448.9
1/2 P-P	1021.6	595.2								848.4	848.4
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-548.7	-138.9	-322	-139.2	51.2	-210.6	64.6	-249.3	100	-276.8	283.1
2nd	102.5	-415.2	74.1	-236.5	9.6	64.5	-12.4	78.5	-32.5	115.4	-166.1
3rd	-158.8	55.4	-85.2	23.7	49.6	-20.9	57.5	-23.3	75.9	-23.1	140.3
4th	-22.1	-25.6	-9	-14.3	6.4	9	7.7	11.3	5.9	19.3	-7.9
5th	-16.1	57	-2.8	22	32.4	-53.1	38.1	-60.5	38.4	-68.5	16.9
6th	0.1	-8.1	2.7	-3.8	6.2	7	6.1	9	5.6	11.6	-1.6
7th	-1.5	-7.1	0.7	-4.1	4	3.2	4.1	3.3	2.3	7.8	-1.5
8th	-11.2	-28.1	-2.3	-4.5	10.5	46.8	13.4	55.3	14.5	54.3	3.7
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Flap Bending, in-lb Blade 1, r/R=0.944		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400	
MEAN	-434.9	-535.7	-360.9	-7702.7	-7702.7	-2609.6	-2609.6	-412.4	-412.4		
RMS	447	360.7	235.9	358.4	358.4	387.7	387.7	183.2	183.2		
1/2 P-P	817.5	656	627.3	902	902	955.1	955.1	288.9	288.9		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	262.8	-412.1	169.6	-298.1	13.3	-72.8	-165.4	-244.1	-311.7	157.9	109.4
2nd	-159.7	257.6	-106.3	186.1	-35.8	55.3	16.7	321.5	112.9	-81.5	-19.2
3rd	84.1	184.4	55	231.9	48	182	34.7	-84.5	36.6	75	3.9
4th	-20	-3.3	-53.5	4.5	-74.2	39.3	29.3	10	-179.1	-152.5	0.7
5th	-57.3	114.6	-40.6	116.3	-31.4	72.5	28.1	-85	-74.9	158.8	4.3
6th	9.2	-32.2	5.8	-34.1	24.3	-34.9	4.4	20.1	-7.1	-27.5	1.9
7th	18.9	-12.9	4.9	4.9	-8	23.3	8.3	-33.5	-7.8	33.6	-1.1
8th	4.4	16.8	23.8	94.3	1.9	114.3	-82	-13.1	75.6	-1.3	1.5

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
22/11						
MEAN	-3714.3	-5758.4	-3721.5	-6303.6	-3197.9	-1167.3
RMS	451.6	557.4	466.9	721.9	604.5	395.2
1/2 P-P	762.7	1052.5	882.1	1212.2	995.8	823.1
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	211	-41.9	631.7	-189.7	-139.9	190.5
2nd	-163.6	507	103.8	-362.7	179.8	-515.8
3rd	114.1	233.1	-72.8	1.4	247.5	-88.9
4th	-21.4	-23.9	58.5	34.5	-17.6	-35
5th	-57.4	15.3	72.1	-26.6	-18.5	-78.4
6th	3.9	8.2	-0.4	-14.7	-8	-8.7
7th	-1.9	3	-17	21.4	1.3	1
8th	-11.8	-44.5	-27.7	-16.6	-14.4	-23.5
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
22/11						
MEAN	-1698.6	-368.6	-3508.3	-7435	-416.4	-97
RMS	366.4	211.1	487.1	649.9	190.1	21
1/2 P-P	883.1	319.3	877.6	1306.2	295.9	34
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	374.1	76.5	-100	270.3	-75.1	196.1
2nd	19.3	8.2	-1	72.6	-219.9	529.5
3rd	-10.6	-71.5	-9.3	5.7	-105.9	-277.2
4th	-194.2	-44	9	20.8	-28.4	-31.7
5th	-83.2	-228.1	-3.3	3.2	79.5	-24.4
6th	-3.2	-24.3	3.9	-1.8	9.7	10.8
7th	-3.4	-8.4	-3.8	0.7	5.5	-3.4
8th	20.8	9.6	2.9	4.1	-15.8	-30

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325	
22/11		-3613.8		-1913.6		-988.3		58.5		114.2	
MEAN		536.3		312.2		173.5		206.6		246.5	
RMS		967.5		563		335.1		397.8		472.2	
1/2 P-P											
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-416.5	-54.2	-237.2	-81.7	68.8	-181.5	83.7	-216.7	119.4	-242.7	324.1
2nd	222.6	-514.1	147.8	-293.7	-0.1	69.4	-1.1	84.9	-23.1	129.8	-137.4
3rd	-253.3	93.9	-138.6	44.1	74.9	-23.5	88.1	-26.8	120	-32	241.4
4th	-32.3	-33.2	-14.2	-18.5	11.6	14.1	14.2	17.4	14.9	25.7	2.7
5th	5.9	73.6	6.4	29	17.1	-69.3	20.2	-79.3	15.7	-91.4	-23
6th	-7	-9.2	-0.2	-4.6	14.2	7.3	15.6	9.4	16.1	11.4	-12.4
7th	-2.8	-3.8	0	-2.4	5.1	2.8	5.4	3.1	3.1	7.3	-4.4
8th	-0.7	-33.3	3.4	-6.4	1.7	51	3	59.9	3.3	60.3	16.6
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Flap Bending, in-lb Blade 1, r/R=0.944		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400	
22/11											
MEAN		-389.7		-411.8		-161.3		-8088.3		-2642.5	
RMS		445		362.7		233.5		612.2		298.5	
1/2 P-P		874.3		712.9		642.6		1247.4		724.5	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	263.8	-378.6	165.7	-274.5	30.3	-66.6	222	-717.5	-203.4	19.3	92
2nd	-43.5	320.3	21.3	228.3	51.9	57.9	-130.4	344.1	36.2	-75	-5.5
3rd	167.9	126.7	151.8	189.2	133.5	160.3	24.6	-72	43.5	80.4	13.9
4th	-19.9	-9.6	-69.6	-16.1	-81.9	25.7	34.8	6.5	-214	-31.4	6.8
5th	-20.9	156.3	1.6	160.5	-15.9	88.2	-14.6	-107.7	14.9	208.7	4.5
6th	-4.4	-36.1	7.9	-26.2	35.4	-24	12.2	5.5	-15.3	-12.1	3
7th	18.3	-12.9	6.5	-12.5	0.9	10.7	-12.8	14.9	12.4	-17.4	3.5
8th	7.2	18.5	11.8	96.7	-14	109.3	-31.5	-11.5	26.6	10.5	2

RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	2997.4	-1552	3189	-2383.8	460.6	-17.3			
RMS	799.8	8056	701.8	6942	5900.7	4087.5			
1/2 P-P	1577.7	12045.6	1245.4	10397.8	8857.8	7282.4			
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	414.4	710	-7098.7	-8739.4	-608.4	145.4	6551.7	-7134.1	5658.2
2nd	560	153.4	-1275.3	-1000.1	-595.1	-154.1	1173.3	939.9	940.2
3rd	-285.8	-340.4	-171.6	-343.4	-306	276.5	-92.5	127	0.9
4th	100.2	53.7	74.7	92.8	108.1	55.9	122.4	-72.9	103.1
5th	155.7	102.6	-58.2	36.8	-37.9	82.3	-160.9	-58.6	-94.7
6th	-42.5	3.3	26.2	32.9	47.7	-2.4	-48.8	-62.4	-39.3
7th	-16.6	8.8	-6.7	-24.8	1.3	18.8	23.7	18.3	9.9
8th	30.3	-94.6	-303.2	-275.4	14.3	-99.7	-284.4	-301.2	-231.5
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Blade 4, r/R=0.400	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Pitch Link, lb
15/18	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1	
MEAN	-1491.4	-499.2	3193.8	-3565.2	619.2	-619.2	-3565.2	-50.4	
RMS	3316.3	311.1	603.9	7765.2	292.3	292.3	7765.2	39.1	
1/2 P-P	6513.8	562.3	1146.9	11859	529.9	529.9	11859	79.2	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	2447.7	-3184.7	-361.4	176.5	-247.7	-460.3	7129.3	8183	-117.1
2nd	613.8	149.3	46.4	36.5	496.5	149.5	-1228.8	-959.2	-10
3rd	776.3	108.8	108.8	54.6	240.9	278.8	108.5	317.7	82.4
4th	-185	-2074.3	-62.3	73.3	102	30.6	89.8	-53.1	-81.9
5th	264.5	468.3	-20.2	-36	-101.6	-42.2	68.7	-53.3	30.8
6th	-53.6	123	9.8	-0.6	-47.5	1.5	-9.2	32.6	-8.3
7th	-36.6	-82.3	-2.9	-2.6	17.2	1.2	41.6	21.6	-9.6
8th	146.9	122.1	-6.8	10.1	33.7	-103.2	-266.7	-300	-6.2

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.370	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.400	Blade 1, r/R=0.400	
MEAN	3132.1	2267.4	1189.5	880.4	714.2	334.5					
RMS	522.7	301.3	218	330.1	387.9	643.7					
1/2 P-P	931.5	543.2	540.5	817.3	896.3	1337.5					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-11.8	-73.9	-13.7	-73.4	102.6	-203.5	141.1	-320.1	178.7	-392.7	
2nd	-583	-137.1	-340.5	-72.4	-119.5	15.8	-19.7	71.6	-6.9	83.9	
3rd	293.7	-219.3	170.2	-123	5.2	-38.4	-97.3	26.3	-141.1	60.2	
4th	83.6	40.4	46.4	11.6	-1.3	-26.2	-43	-66.5	-71.7	-70.7	
5th	59.4	-128.1	23.5	-47.5	-30.7	51.3	-80.1	137.1	-84	169.2	
6th	46.5	2.9	19.9	2.3	-14.2	-2.8	-50	-14.5	-61.3	-14.6	
7th	-8.4	-22.9	1.9	-5.8	15.8	18.3	20.8	34.5	21.1	35.2	
8th	17.3	-90.1	-17.3	-22.2	-73.2	74	-107.4	144	-86	144.5	
RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Torsion, in-lb						
15/18	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.570	
MEAN	-394.2	-884.6	-1097.3	-3790.3	-2458.8	-502.3					
RMS	834.2	875.1	618	7459.1	2882.1	307.8					
1/2 P-P	1811.3	1918	1562.7	11113	5788.5	551.7					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	311.1	-734.3	214.8	-606.1	-64	-240.2	-724.7	7486.2	-1751.5	2427	
2nd	-583.6	28.5	-664.3	-3.1	-472.4	-13.4	1301	801.2	619	-56.9	
3rd	-134.5	397.7	-176.2	351	-182.2	190.3	287.1	-110.1	-769.5	-117.4	
4th	155.6	35.1	291.2	130.5	209.4	101.8	6.7	93.4	179.2	-2442.6	
5th	210.3	-377.7	268.1	-505.2	268.6	-318.5	66.4	95.1	-123.6	-523.5	
6th	63.5	29.4	-7.4	-49.1	-43.9	-82.5	-17.3	-42.5	-55	81.8	
7th	4	-8.2	-9.4	103.8	-57.5	63.1	24.6	-38.2	-20.7	57.4	
8th	-53	15.3	-138.7	203.3	-138.7	278.5	-270.2	-321.1	319.5	323.1	

RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	1447.7	-3078	1588.2	-3792.3	5196.2	-801.2	-470	
RMS	608.5	5343.5	510	5033.3	4405.2	4041.6		
1/2 P-P	1014.9	8206.8	807.5	7994.8	6874.1	5451.8		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	513.7	462.2	-3939.2	-6337.3	-341.3	342.6	5864	-4252.4
2nd	239.8	290.3	-714.4	-857.4	-269.6	-325.8	698.3	917.5
3rd	-168.7	-264.2	-86.2	-208.8	-224.3	196	-202	95.6
4th	68.3	39.3	33.5	60.9	80.6	38.9	71.9	-38.3
5th	58.4	47	-66.3	34	-20.2	35.3	-52.4	-52.8
6th	-33.5	5.2	2	14.1	37.5	-8.2	28.1	-6.4
7th	-6	9.8	-13.6	26.7	7.4	1.2	26.2	58.3
8th	19.2	-69.9	-196.3	-218.3	7.8	-56.5	-211.7	-238.3
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Pitch Link, lb
	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1
MEAN	-1649	-500.2	1724.8	-5184.3	-5044.8	-584	-69.4	
RMS	2416.1	251.2	422.1	775.8	775.8	235	26.1	
1/2 P-P	4813.1	409.3	723.6			388.5	47.9	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	2199.1	-2028	-245.6	225.7	-332.2	-172.7	3917.8	5859.3
2nd	421.5	123.9	-59.1	99.4	165.4	320.3	-571.4	-840.4
3rd	355.9	88.8	11.8	-7.5	165.1	199.5	70.5	223.9
4th	248.1	-1467.8	1.3	28.8	64.3	29.3	34.4	-39.4
5th	128.3	279.9	-17.5	-0.7	-30.2	-48.1	63.2	-45.7
6th	-29.2	39.2	4.2	-3.4	-41.4	4.9	1.7	0.2
7th	-34.3	-60.6	-0.2	-3	5	-7.6	45.9	26.4
8th	97.7	82.7	-4.1	7.4	20.7	-58.6	-170.4	-231.5

RUN/POINT		Flap Bending, in-lb									
	Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325
MEAN	1642	1340	813.2	704.7	572.2	165.9					
RMS	422.9	260.3	199.4	285.1	341.3	613.3					
1/2 P-P	889.7	546.8	414.4	642.7	707	1147.1					
HARMONIC	COSINE	SINE	COSINE								
1st	-178.7	-262.9	-110.8	-205.8	49.4	-249.9	123.4	-333.4	163	-394	277.2
2nd	-235.8	-338.9	-130.1	-190.1	-58.2	-21.7	-31.1	78.9	-40.6	110.4	-225.6
3rd	216.6	-152.8	124.9	-85.7	9	-25.4	-69.1	20.2	-102.3	47.6	-256.7
4th	59.7	30.1	34.7	11.8	7.4	-14.4	-21.8	-44.7	-42	-46.4	-61
5th	46	-37.8	18.3	-11.9	-19.3	16	-52.6	40.5	-59.4	53.9	-7.2
6th	34.8	-0.1	15.3	2.1	-10.4	0.1	-36.5	-6.8	-44.8	-4.3	30.1
7th	-12	-2.8	-0.6	1.8	15	7.8	25.9	8.3	25.7	8	-23.8
8th	16.6	-44.7	-8.9	-12.9	-47.3	32	-71.4	64.3	-58.3	68.1	93.2
MEAN	-458.8	-842.7	-935.1	-5571.7	-2588.8	-491.7					
RMS	707.8	660.7	432.3	4901	1883.5	234.6					
1/2 P-P	1369	1387.7	1208.2	7493.8	3827.4	406.5					
HARMONIC	COSINE	SINE	COSINE								
1st	331.9	-637.1	224.1	-504.5	-48.7	-182.6	-5331.9	4282.3	-1434.6	1526.9	238.8
2nd	-484.6	100	-490.7	53.5	-325.6	-0.1	695.8	774.9	418.3	-42	-76.7
3rd	-233.5	347.3	-276.8	327.3	-231.9	208.6	231.1	-71.8	-439.2	-108.8	-10
4th	54.1	58.5	108.9	126.8	50.1	106	-4.4	-1.6	561.9	-1329	7.4
5th	149.5	-141	206.5	-186.7	198.4	-99.8	36	66.8	-39.4	-266.8	25.7
6th	67.8	9.7	37.6	-46.1	15.6	-61.8	-10.8	-22.6	23.1	52.3	4.5
7th	15.1	-14.7	2.8	25.9	-36	-3.7	10	-5.3	-0.7	8.1	-0.3
8th	-40.8	-1.6	-97	105.7	-101.2	151	-176.9	-239.2	213.9	220.2	-2.5

RUN/POINT		Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	15/16	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.174	Blade 3, r/R=0.325	Blade 3, r/R=0.325	
MEAN		202		-3981.7		296.3		-4691.9		-1627.2		-761.3	
RMS		493.2		3507.2		456.3		3519.7		2970.8		2086.2	
1/2 P-P		801.3		5437.1		719.7		5455.3		4669.9		3697.3	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	425.9	403.2	-1914.9	-4492.4	-391.8	313.2	4487.8	-1967.5	3815.5	-1602.1	2504.3	-1295.7	
2nd	86	302.5	-369.6	-669.6	-97.6	-342.8	293	714.2	233.9	575.9	240.7	252.4	
3rd	-111.5	-137.8	-105	-115.4	-109.1	129.2	-130	108.4	-85.2	88	112.4	47.2	
4th	42.5	22.9	50.8	61.3	51.6	22.9	45.7	-0.9	56.6	-131.6	98.9	-730.4	
5th	38.4	15.5	-27.4	40.1	11.6	10.4	-44.4	-27.6	-14.2	-7.1	102.2	94	
6th	-26.3	5.7	18.3	5.2	29.7	-6.7	1.9	-6.7	5.1	-4.7	-3	22.1	
7th	-4.7	5.9	-9.1	28.2	3.2	2.7	-3.9	57.3	-10.1	35.3	-15.3	-22.7	
8th	11.3	-69.8	-248.3	-185	1.4	-54.1	-256.3	-198.5	-214.6	-192	-101.6	-103.9	
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Blade 4, r/R=0.400	Blade 3, r/R=0.400	Flap Bending, in-lb	Blade 4, r/R=0.144	Chord Bending, in-lb	Blade 4, r/R=0.144	Torsion, in-lb	Pitch Link, lb	Pitch Link, lb	
15/16	Blade 3, r/R=0.450	Blade 3, r/R=0.450	Blade 3, r/R=0.400							Blade 4, r/R=0.400	Blade 1	Blade 1	
MEAN	-1724.8		-489.1			484.3		-6032.5		-559.1		-81.8	
RMS	1662.3		226.7			323.6		3173.2		209.9		29	
1/2 P-P	3405.4		372.8			647.4		4901.5		353.5		53.8	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	1727.9	-1120.9	-196.9	229.8	-233	-109.3	1772.7	4050.4	-194.1	-201.6	30.1	-19.1	
2nd	237.1	79.1	-60.6	80.5	9.8	341.5	-248.5	-602.3	78	-51.6	-17.6	8.3	
3rd	200.2	14.7	13.7	9.3	110.3	75.5	106.8	146.5	20	-11.3	-1	-2	
4th	60.6	-1031.4	1.3	21.6	40.5	11.3	3.7	-12	0.4	16.8	-1.2	3	
5th	158.5	141.5	-7.8	0.7	0.5	-0.4	10.7	-50.4	-1.4	-7.9	-1.6	0.3	
6th	0.6	17.6	2.9	-3.4	-33.6	5.2	28.9	-1.9	-4.7	3.1	0.4	-0.2	
7th	-9.7	-40.8	-0.4	-1.3	5.2	0.1	12	30.3	-0.7	1	-1.3	0.5	
8th	102.4	75.8	-2.5	6.6	-2.7	-59.7	-234.2	-208.8	-3	7	0.3	-1.6	

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144	Flap Bending, in-lb Blade 1, r/R=0.167	Flap Bending, in-lb Blade 1, r/R=0.215	Flap Bending, in-lb Blade 1, r/R=0.280	Flap Bending, in-lb Blade 1, r/R=0.325	Flap Bending, in-lb Blade 1, r/R=0.570
MEAN	384.1	558.6	493.4	559.9	456.8	44	
RMS	328.5	207	171.5	254.2	300.5	547.8	
1/2 P-P	642.4	395.2	322	557.3	595.7	1002.2	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-157.4	-92.9	-166.9	43.8	-218.1	115.4	-303.4
2nd	-43.4	-14.5	-200.6	-15.8	-27.9	-26.3	78.4
3rd	94.9	-97	58.1	-55.1	7.9	-16.4	-24.5
4th	35.4	9.6	22.2	3	5.5	-9.7	-12.2
5th	7.9	-14.8	7.1	-3.1	4.4	9.6	1.4
6th	28.4	-1	12.5	1.7	-8	1.5	-27.7
7th	-6.3	-2.3	-1	2.2	5.7	7.6	-2.7
8th	8.6	-42.7	-11.9	-9.8	-42	37.5	-60.5
15/16	Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800	Flap Bending, in-lb Blade 1, r/R=0.900	Flap Bending, in-lb Blade 1, r/R=0.144	Chord Bending, in-lb Blade 1, r/R=0.570	Chord Bending, in-lb Blade 1, r/R=0.325	Torsion, in-lb Blade 1, r/R=0.400
MEAN	-467.9	-768.1	-769.3	-6529.8	-2657.9	-484.5	
RMS	600.4	526.4	330.6	2978.6	1245.6	205.8	
1/2 P-P	1103.4	1099.9	947.5	4760.9	2659.6	356	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	308.3	-550.6	205	-417.8	-31.4	-129.8	-3657.8
2nd	-379.9	150.8	-343.3	95.2	-192.7	18.5	322.7
3rd	-148.9	333.5	-190.3	334	-151.8	229.9	139.9
4th	28	47.6	50.3	98.7	2.8	92.5	-1.1
5th	35	-80.9	80.4	-108.4	100.2	-55.1	51.4
6th	58	-1.8	28.5	-44.3	18.8	-50.2	-29.4
7th	15.9	-11.1	-13	20.2	-48.9	4.2	10.3
8th	-36.9	5.5	-80.3	119.9	-92.5	155.2	-244.9

RUN/POINT		Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
		Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	-473	-4323.1	-394.1	-5068.6	-1974	-868.6					
RMS	466	2688.8	449.1	2789.9	2351.8	1653					
1/2 P-P	781.1	4388.2	811.6	4489.7	3805.3	3011					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	417.7	355.6	-1246.2	-3503.6	-387	311.8	3662.2	-1223.3	3107.2	-975.7	2077.2
2nd	111.3	309.8	-340.4	-562.6	-116.3	-348.5	305.1	611	244.9	493.6	209.2
3rd	-67.2	-70.9	-98.4	-60.5	-43.1	79.6	-75.4	98.9	-43.2	78	67.2
4th	47.3	6.3	32.3	32.5	53.6	4.9	37.2	3	63.6	-77.6	165.3
5th	22.2	18.2	-16.8	5.2	-2.6	-4.8	-7.4	0	1.3	7.2	37.9
6th	-7.4	8.2	22.8	2.1	10	-10.2	-2.6	-9.4	0.5	-6.4	-13.7
7th	-4.1	5.1	-14.4	34.5	0.4	0.4	-19.3	37.4	-23.6	23.5	-18.5
8th	-2	-79.4	-288.3	-146.4	-10.8	-56.5	-298.7	-171.7	-258.3	-166.5	-123.9
											-87.7
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
		Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 4, r/R=0.400	Pitch Link, lb	Blade 1
MEAN	-1741.5	-477.2	-187.7	-6371.4	-543.6	-86.8					
RMS	1287	220	310.9	2352.6	199.8	29.7					
1/2 P-P	2559	354.1	664.9	3732.8	325.9	53					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	1456.7	-793.8	-177.5	238.4	-220.9	-63.3	1038.2	3080.2	-201.2	-180	30.9
2nd	202.3	59	-45.8	75.5	35.6	346.4	-244	-511.5	60	-51.8	-15.1
3rd	115.3	-20.6	14.2	7	67.1	-2.4	101.5	96.8	15.1	-11.5	7.1
4th	177.5	-635.6	4	13.2	46.4	-2.2	-8.6	-1.4	2.2	9.1	-0.9
5th	46.7	69.2	-3.7	-0.9	5.9	-10.9	-1	-19.9	-0.2	-3.9	-1.7
6th	-5.4	5.9	2.2	-2.9	-13.8	10	24.1	-0.6	-4.1	1.8	0.6
7th	7.8	-24.8	-2	0.2	3.7	0.9	-16.5	21.1	0.5	2.3	-0.8
8th	115.4	66.4	-0.3	6.3	-19.4	-70.4	-276.1	-177.8	-1	7.6	0.1
											-0.9

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
15/15													
MEAN	-285.5		143.2		321.4		482.2		392.5		-327		
RMS	329.6		207.2		165.3		245.9		288		511.4		
1/2 P-P	650.6		412.1		316.9		522.6		563		925.9		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-182.5	-180	-105.4	-164.2	32.4	-209.4	110.9	-291.1	145.6	-342	277.7	-569.4	
2nd	-71.4	-362	-30.9	-203.5	-16.1	-30.3	-12.9	76.9	-27.1	112	-188.6	227	
3rd	18.6	-59	15	-35.8	5.5	-14.9	2.5	3.4	-2.1	18.3	-55.7	120.1	
4th	42.8	1.2	26.8	0.6	6.9	-6	-12.5	-13.1	-25.8	-9.8	-42.3	10.2	
5th	11.3	-1.6	8.6	1.1	5.6	2.4	1.3	1.8	-1.7	6.8	-16.2	10.6	
6th	7.8	-6.8	5.2	-1.8	2.2	3	-2	4.5	-3.8	7.2	7.7	-0.2	
7th	-4.9	-1.2	0.9	0.5	8.9	1.7	13.7	2	12.4	3.6	-11.1	-7.1	
8th	0.4	-54.6	-11.3	-10.3	-29.6	53.7	-42.2	100.2	-28.9	97.9	78.2	-105.3	
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725		Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Flap Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400		
15/15													
MEAN	-471.2		-721.8		-672.3		-6899.7		-2663.6		-475.2		
RMS	543		470.8		301.1		2157.2		951.2		195.9		
1/2 P-P	970.5		1028		820.9		3660		2203.5		322.9		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	299.3	-515.1	197.9	-387.1	-22.6	-111.7	-2701.6	1200.7	-880.2	628.8	166.7	-200.9	
2nd	-322.6	171.1	-288.3	117.1	-161.3	30.6	309.1	514.6	235.7	-69.9	-60.9	66.4	
3rd	-88.9	280.2	-128.5	294	-101.2	210.2	93.4	-97	-145.9	37.3	-9.6	-4.8	
4th	14.7	34.1	18.6	67.8	-28	72	-15.4	9.9	327.3	-534.5	1.3	13	
5th	33.5	-49.7	72	-77	79.6	-46.6	20	10.2	-41.2	-83.3	4.2	0.3	
6th	27.2	-20.2	11	-47.9	19.1	-47.3	-16.6	-19.5	16	13.7	4.4	-2.8	
7th	15.7	-16.2	-2.2	2.6	-32.9	-1.5	-12.4	25.3	12.6	-18.7	1.9	-1.9	
8th	-28.4	18.8	-50.8	157	-59.2	190.5	-281.2	-181.7	287.1	158.3	0	3.3	

RUN/POINT		Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb
		Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	-1261.7		-4711.6		-1197		-5451.5		-2329.5
RMS	609.9		2214.3		600.5		2341		1956
1/2 P-P	1001.1		3541.1		957.6		3778		3135.5
		HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	612.1	467.3	-724.7	-2978.8	-532.4	511.5	3169.9	-670.6	2665.1
2nd	-72.6	357.9	-110.8	-539.9	82	-388.6	62.8	586.5	49.9
3rd	-81.2	10.2	-102	-54.9	38.6	92.4	-61	105.8	-32.3
4th	27.7	3.6	52.9	45.2	29.7	-1.3	22	7.6	8.9
5th	2.9	-3.3	4.8	27.1	16.3	-23.5	-28.4	26.2	-14.2
6th	-16.4	3.9	25	9	14.8	-8.4	-4.4	-11.2	0
7th	0	3.8	0.8	-1.6	-1.7	-3.4	7.4	2	2.8
8th	0.4	-78.9	-199.3	-130.8	-12.9	-55.3	-206	-159.3	-171.3
		RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Torsion, in-lb	Pitch Link, lb
15/14		Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1
MEAN	-1782.8		-459.3		-967.5		-6727.7		-522.6
RMS	1058.1		214.4		446.6		1887.7		191.7
1/2 P-P	1943.9		347.5		861.7		3086.3		317.6
		HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	1278.5	-537.9	-161.5	240.3	-424	-164.6	514.2	2555.8	-202
2nd	145	44.1	-50.7	69.4	-141.7	385.4	-22.7	-473.7	54.9
3rd	111.7	-68.7	8.5	7.5	81.6	-81.1	100.4	101.8	11.2
4th	-106	-434.9	1.6	20	21.5	-11.2	5.1	-15.4	-0.6
5th	93.1	-28.3	-4.2	0.5	30.3	1.9	-25.6	-29.8	0.8
6th	9.4	11.1	0.2	-0.4	-18	12.9	5.1	-2.9	-2.7
7th	-5.6	-7	-1.4	-0.8	2.7	2.1	15.2	-18.4	0.8
8th	82.3	63.5	0.6	4.6	-15.8	-67.4	-185	-156.7	-0.3

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
15/14													
MEAN	-1063.2		-337.6		124.7		399.2		329.7		-78.2		
RMS	420.5		274.4		193.9		244.2		280.1		495.1		
1/2 P-P	817.8		513.6		381.3		472.9		509.1		903.8		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-94.4	-390.5	-46.8	-293.1	54.4	-251.3	120.1	-289	152.9	-324.4	300.1	-507.6	
2nd	125.2	-402.3	86.2	-224.8	21.2	-39.5	-23.3	75.4	-51.9	113.5	-235.3	220.7	
3rd	-52.7	-72.9	-23.4	-43.8	3.7	-12.2	26.1	14	31.4	31	11.4	162.5	
4th	20.6	-11.2	13.9	-5.7	3.5	-2.9	-6.2	-2.4	-15.9	2.2	-35.2	11.7	
5th	5.5	13.2	7.5	7.6	11.5	-1.4	14.4	-11.5	11	-11.3	-16.9	3.8	
6th	17	-6.2	8.7	-1.2	-1.6	3.6	-12.2	6	-16.2	8.7	10.1	-3.8	
7th	-0.9	0.1	2.7	1.8	8.2	3.8	10.2	4.1	7.4	6.2	-8	-11.8	
8th	3	-46.8	-6.1	-9.8	-21.6	42.9	-32.6	81.5	-24.1	80.5	65.6	-88.7	
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725		Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Flap Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400		
15/14													
MEAN	-443.4		-648		-561.1		-7283.6		-2717.3		-459.1		
RMS	511.2		431.2		282.3		1667.7		746.6		188.9		
1/2 P-P	887.5		868		776.6		2824.4		1681.2		310.5		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	292.1	-445.4	185.4	-322	-17.7	-79.2	-2196.3	619.4	-756.2	423.6	150.5	-202.1	
2nd	-304.3	177.6	-240.9	115.8	-103	23.6	60.4	487.7	185.8	-58	-60.8	60.2	
3rd	-38.3	321.3	-78.3	347.5	-59.4	255.6	85.8	-101.3	-122.9	100.5	-6.7	-3.7	
4th	5	17.1	-7.3	39.5	-50.9	52.1	16.7	11	-84.6	-393.9	-4.2	17.2	
5th	9.2	3.9	53.8	-7.5	62.8	0.7	25.2	-16.3	-58.7	-7.8	4	-0.3	
6th	38.9	-14.1	22.7	-29.3	28.3	-28.1	-23.3	4.4	36	-10	3.8	-1.7	
7th	19.9	-4.6	-1.2	11.2	-31.4	6.8	7.6	-20.9	-11.2	18.5	2	-0.9	
8th	-21.6	17.2	-40.6	138.5	-59.1	164.1	-194.3	-155.5	194.5	138.5	0	2.8	

RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	-2457.7	-5277.6	-2408.9	-6022.8	-2862.8	-	-1151	
RMS	535	1376.3	593.2	1552.9	1287.8		892.3	
1/2 P-P	957.6	2363.9	1091.8	2647.9	2180.3		1497.8	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	272.7	526	467.7	-1827.5	-652.3	166.1	2036.9	619.7
2nd	-86.4	436.5	12.3	-419.7	103.2	-460.7	-74	473.6
3rd	63.6	97.5	-83.3	2.4	126.4	-45.9	-7.2	89.2
4th	6.7	-17.3	33.8	39.2	11.1	-18.7	15.1	4.2
5th	-24.4	-13.3	35.8	-1.3	26.3	-43	-1.2	49.5
6th	0	8.6	7.9	1.1	-3.6	-11.3	11	-0.2
7th	-2.1	-0.6	-11.5	-3.7	-6.7	1.2	-6.3	-2.3
8th	-9	-64.4	-100.5	-81	-10.3	-46.1	-105.5	-95.2
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Pitch Link, lb
15/13	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1
MEAN	-1815.1	-426.1	-2143.8	-7272.1	-	-483.5	-	-94.3
RMS	673.7	215	424	1203.5		191.2		28.5
1/2 P-P	1303.8	335.3	844.2	2093.5		298.9		48.2
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	904.2	-45.8	-138.7	258.9	-88.9	-256.7	-771.9	1436.7
2nd	56.7	14.2	-23.6	72.8	-155.5	466.9	110.5	-404.6
3rd	8.7	-92.1	2.6	5.9	-62.6	-168.4	99.3	40.1
4th	-50.5	-172.1	7.4	10.6	-2.5	-25.6	3.6	-22.7
5th	46.4	-123.6	-3	-1.6	53.9	10.5	-56.1	-0.5
6th	-9.5	-12	2.1	0.1	1.1	17.6	-9	-8.4
7th	0.5	0.8	-2.6	-0.4	4.4	5.9	-13.2	-20.9
8th	45	40.2	1.2	3.8	-22.2	-56.8	-90.5	-92.9

RUN/POINT 15/13	Flap Bending, in-lb Blade 1, r/R=0.144	Flap Bending, in-lb Blade 1, r/R=0.167				Flap Bending, in-lb Blade 1, r/R=0.215				Flap Bending, in-lb Blade 1, r/R=0.280				Flap Bending, in-lb Blade 1, r/R=0.325				
		SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	
MEAN	-2242.3			-1067.4		-176.8		263.9		221.6		-200.1						
RMS	372.7			220.9		141.4		219.7		261.2		480.2						
1/2 P-P	658.2			375.8		329.4		424.6		477.4		903.1						
HARMONIC																		
1st	14.7	-51.5	22.4	-84.8	77.1	-151.6	129.7	-233.8	159.9	-275.5	337.6	-462.7						
2nd	138.9	-475.8	95.9	-269.7	30.7	-54.4	-11.4	79.1	-35.6	124.9	-185.5	271.7						
3rd	-136.3	59.3	-71.5	28.6	2.2	-2.1	56.8	-20.7	75.4	-22.7	115.9	44.7						
4th	-7.7	-24.6	0	-11.5	4.7	1	6.3	11.3	1.6	19.7	-19.9	25.6						
5th	0.5	33	5.9	13.4	17.6	-13.4	25.4	-39.4	22.1	-44.9	-24	5						
6th	-3	-12.6	1.1	-4.8	5.5	5.8	7	14.5	7	18.3	-1.9	-11.6						
7th	4	-3.3	5.2	-0.4	6.6	2.5	4.3	5.6	0.2	9.3	-2.7	-12.8						
8th	-4.9	-43.4	-2.7	-7.4	-4.1	42.3	-6.5	79.3	-2.1	76.9	36.5	-91.1						
RUN/POINT 15/13	Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800				Flap Bending, in-lb Blade 1, r/R=0.900				Chord Bending, in-lb Blade 1, r/R=0.144				Chord Bending, in-lb Blade 1, r/R=0.325				
MEAN	-450.4			-554.5		-379.5		-7865.8		-2756.4		-427						
RMS	462.9			369.5		234		1019		429.4		188.6						
1/2 P-P	814.5			681.3		602.2		1794.2		932.1		297.5						
HARMONIC																		
1st	294.9	-442	183.8	-330.2	0.6	-87.6	-1136.6	-732.7	-520.2	85.8	129.4	-221.1						
2nd	-178.3	260.7	-116.7	181.5	-35.4	42.6	-73.7	430.9	99.6	-61.6	-31.8	65.8						
3rd	44.7	174	15.8	223	25.6	177.3	27.2	-88.2	25.7	87.6	-0.5	1.4						
4th	-19	3	-51.8	8.9	-81.5	41.6	21.1	-9.6	-32.2	-69.5	2.2	4.4						
5th	-22	67.7	9.1	62.2	7	33.1	3.5	-47.4	-15.5	100.9	4.9	2.8						
6th	15	-34.7	13.6	-36.1	36.8	-31.1	6.2	20.7	2.5	-27	2.1	-1						
7th	24.6	-6.9	7.2	6.7	-13.4	22.6	-19.6	-19.3	18.2	17.4	2.4	-0.7						
8th	-3.9	22.4	-7.4	129.5	-33.4	150	-92.3	-90.2	94.7	74.3	0.9	2.1						

RUN/POINT		Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
		Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.174	Blade 3, r/R=0.325	Blade 3, r/R=0.325	
MEAN	-3743.9		-5769.7		-3708.8		-6500.5		-3324.5		-1299.4		
RMS	864.4		1385.2		960.5		1573.3		1284.7		862.9		
1/2 P-P	1509		2316.3		1676.4		2577.3		2057.6		1528.7		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	61.2	1073.3	1040.8	-1603.6	-1216.5	-40	1820.8	1186.1	1456.2	1027	1081.9	475.5	
2nd	-141.5	492.7	129.4	-338.8	169.8	-503.7	-191.1	374.6	-151.4	272.5	-41.6	99.8	
3rd	135.3	208.2	-85.7	16.4	226.1	-110.2	5.9	89.8	16	53	18.6	-39	
4th	-13.2	-34.3	54.8	24.8	-9.6	-42.2	23.5	7.6	-4.7	-17.3	-124.6	-116.8	
5th	-51	-39.1	66.6	11.9	53.5	-73.2	-20.5	94.8	-4.5	46.2	99.5	-142.5	
6th	8.5	7.9	-2	-4.2	-13	-10.6	14.1	1	11.8	-1	-10.4	-15.5	
7th	0	-4.4	24.1	-3.6	-7.5	3.6	21.7	-9.7	12.4	-10	-14.6	-14.2	
8th	-28.5	-39.1	-57.4	-32.4	-21.7	-21.8	-59.8	-38.8	-49	-34.9	-21.2	-20.3	
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Blade 3, r/R=0.400	Blade 4, r/R=0.400	Flap Bending, in-lb	Blade 4, r/R=0.144	Chord Bending, in-lb	Torsion, in-lb	Pitch Link, lb	Pitch Link, lb	Pitch Link, lb	
15/12	Blade 3, r/R=0.450	Blade 3, r/R=0.450	Blade 3, r/R=0.400			Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
MEAN	-1840.6		-388.3		-3408.9		-7694.1		-435.3		-96.4		
RMS	659.6		215.8		715.7		1361.2		191.9		27.2		
1/2 P-P	1313		325.9		1352.7		2193.4		301		42.8		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	802.3	219.5	-109.6	273.3	113.9	-776.1	-1354.2	1293	-239.6	-108.1	33.6	-17.4	
2nd	0.1	2.7	-3.3	74.7	-210.6	507.8	210.7	-325.2	3.7	-64.3	-1.3	3.8	
3rd	-1.2	-84.9	-7.1	13.2	-138.2	-263	98.4	24.3	2.7	3.1	2	3	
4th	-198	-159.8	9.6	18.5	-25.3	-44.9	16.6	-7.1	13.4	8.9	0.5	2	
5th	117.4	-255.6	-2	-1.6	76.7	37.2	-79.4	-24.9	3.7	-1.5	0.8	-0.2	
6th	-13.2	-18.4	1.7	0	15.8	18.1	-26.1	-13.1	-1.2	0.3	-0.2	-0.3	
7th	-16	8.2	-2.4	-1	6.9	7.5	13	-13.1	-0.5	2.2	-0.6	0.2	
8th	30	20.1	2.6	2.4	-29	-25.2	-49	-35	3	3.9	0.4	-0.9	

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb							
		Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325
MEAN	-3515.1	-1858.5	-506.1	117.8	106.1	-309.8					
RMS	599.7	357.5	179.4	223.1	265.3	482.9					
1/2 P.P	1181.5	694.8	327.7	521	568.9	892.4					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	559	152.2	357.2	46.2	210.9	-84.8	178.6	-191.1	192.1	-234.2	378.9
2nd	190.6	-513.3	128.8	-292.9	49.1	-63.6	0.6	78.2	-20.9	128.1	-136.1
3rd	-231.2	128.1	-125.7	65.9	-2.4	6.6	85.9	-31.2	118.5	-42.6	223.2
4th	-26.5	-43.9	-9.4	-21.9	5.5	2.8	13.5	23.4	12.7	35.1	-6.8
5th	-28.3	48.7	-5.1	17.3	30.7	-20.2	60.1	-56	62.4	-67	-25.9
6th	-9.8	-10.5	-1.2	-4.8	8.7	4.8	15.2	13.2	16.9	15.7	-9.8
7th	6.2	-2.7	5.7	-0.9	4.3	0.5	0.3	2.3	-4.1	5.6	2.9
8th	-18.5	-27.8	-3.4	-5.2	14.4	27.4	26.5	52.7	27.7	50.5	-8.9
RUN/POINT	Flap Bending, in-lb	Blade 1, r/R=0.725	Flap Bending, in-lb	Blade 1, r/R=0.800	Flap Bending, in-lb	Blade 1, r/R=0.900	Flap Bending, in-lb	Blade 1, r/R=0.144	Chord Bending, in-lb	Blade 1, r/R=0.570	Torsion, in-lb
15/12											Blade 1, r/R=0.400
MEAN	-420.1	-433.3	-170.3	-8330.3	-2797.8	-385.9					
RMS	450.6	358.4	224.1	1276.4	425.8	187.9					
1/2 P.P	882	732.6	616.6	2073	1004.8	294.2					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	294.8	-399.8	174.8	-297.5	10.9	-77.5	-1054.6	-1389.8	-464.1	-110.5	100.1
2nd	-48.7	307.2	14.5	216.4	40.7	47.4	-187.5	358.6	27.3	-51.4	-7.5
3rd	134.6	93.7	118	156.6	111.4	140.1	12.4	-84.9	52	92.7	6.6
4th	-29.8	-83.5	-50.7	-100.7	-2.3	34.5	-1.1	-185.5	-96.1	8.8	-0.7
5th	-107.1	114.7	-98.9	119.2	-84.7	57.3	21.1	-77.7	-81.7	170.9	1.5
6th	0.2	-35.7	10.6	-22.1	38.1	-15.7	11.7	22.4	-16.4	-27	1.2
7th	23.2	-2.4	4.6	-0.2	-10.5	24.5	15.3	-5.4	-18.4	7.3	-0.7
8th	10	19.5	39.9	90.9	20.1	99.2	47.3	-26.9	45.2	18.7	2.1

RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	-508.8	-4578.9	-447.9	-4860.6	-1786.6	-1786.6	-550.3	-550.3
RMS	400.8	2469.9	388	2572.1	2171.7	2171.7	1535.5	1535.5
1/2 P-P	691.2	4025.1	672.3	4235.7	3519.9	3519.9	2666.6	2666.6
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	338.7	289.6	-942.8	-3288.1	-308.2	246.4	3427.3	-971.1
2nd	9.5	312.6	-202.6	-538.9	-23.6	-347.7	188.1	576.8
3rd	-84.4	-43.7	-109.4	-85.3	-17.2	95.5	-91.7	114
4th	45.9	17	20.5	34.2	50	9.3	10.2	14.3
5th	37.1	-10.9	-29.4	55	38.4	8.5	-81.4	1.8
6th	-15.9	12.6	23.2	-2.4	19.4	-13.6	1.6	4.7
7th	-3.9	0.6	-8.3	36.5	-2.6	3.1	-0.7	37.4
8th	6.4	-72.8	-241.9	-158.2	-6	-48.7	-244.9	-183.7
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Pitch Link, lb
	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1
MEAN	-1567.1	-470.6	-242.4	-6255.8	-536.2	-536.2	-87.4	-87.4
RMS	1208	216.9	289.3	2101.7	198	198	27.7	27.7
1/2 P-P	2406.5	359.4	604.4	3428.4	331.5	331.5	50.6	50.6
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	1377.6	-708.6	-174.6	234.4	-139.4	20.7	724.8	2811.9
2nd	180.7	38	-53.6	72.1	-61.5	350.1	-135.1	-465.9
3rd	142.3	-19.8	9.4	6.2	81.1	-20.4	109.3	115.8
4th	109.2	-576.2	5	17.3	40.3	2.7	-3.6	1.6
5th	238.2	101.7	-3	-0.4	1.2	28.2	10.2	-85.1
6th	7.9	-9.3	2.3	-2.1	-22.9	10.1	27.3	-2.4
7th	-5.3	-23.4	-0.3	-0.6	6.3	5.3	7.2	30.3
8th	98.2	66.8	-1.1	5.5	-12.9	-65	-229.9	-178

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
15/ 7													
MEAN	-326	119.8	321.1	490	402.3	-9.8							
RMS	338.1	207.6	149.1	235.9	280.1	511.1							
1/2 P-P	679	407.5	285.1	525.2	572.5	953.7							
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-268.8	-117	-158.7	-126.3	8.9	-189.3	101.4	-277.6	139.7	-326.7	274.9	-553.5	
2nd	32.4	-350.3	30.8	-195.2	1.5	-28.8	-21.2	75.6	-44	109.9	-217.6	223	
3rd	1.1	-83.3	6	-49.5	3.2	-16.4	4.3	11	1.9	30	-49.4	159	
4th	42.2	4.5	25.7	1.8	4.7	-6.4	-13.4	-15	-26.9	-12.9	-46	7.3	
5th	-22.6	-16.2	-4.9	-2.8	16.3	13.4	35.6	27.2	39.9	34.6	-14.7	6.3	
6th	15.5	-8	7.6	-2.9	-3.5	1.9	-14.3	4.4	-17	6.9	9.9	3.6	
7th	-3.1	-5	0	-2	4.1	1	6.9	2.5	6.2	7	-3.7	-8	
8th	3.7	-50.6	-8.3	-11.5	-27.4	43.8	-40.5	85.3	-29.4	85.1	72.4	-93.7	
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800	Flap Bending, in-lb Blade 1, r/R=0.900	Flap Bending, in-lb Blade 1, r/R=0.144	Chord Bending, in-lb Blade 1, r/R=0.570	Chord Bending, in-lb Blade 1, r/R=0.400	Torsion, in-lb Blade 1, r/R=0.400						
15/ 7													
MEAN	-453.9	-703.4	-663	-6903.9	-2650.9	-468.2							
RMS	549.7	474.5	297.7	1901.2	877.5	192.5							
1/2 P-P	1019.2	1016.6	808.9	3303.8	2020.6	328.3							
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	295.6	-494	195.7	-364.7	-20.8	-101.5	-2448.8	901.5	-820.5	565	163.9	-195.4	
2nd	-340	171	-293.8	115.8	-149.6	31.1	182.5	456.3	232.8	-80.9	-68.5	61.6	
3rd	-79.5	312.8	-121.8	322.8	-99.7	231	110.4	-105.7	-165.3	45.4	-5.9	-4.9	
4th	32.9	33.6	44.1	70.4	-8.2	73.1	1.1	8	100.6	-501.6	-0.1	19.2	
5th	-33.9	-94.4	-3.5	-128.7	33.5	-80.8	89.3	25.3	-207.3	-139.3	2.2	-1.6	
6th	45.6	-13.5	26.6	-42	26.3	-41	-21	-23	23.2	29.2	5.1	-2.2	
7th	17.2	-12.7	-7.4	9	-42.5	0.7	-1.2	37.7	4.9	-36.7	0.4	-1.1	
8th	-27.8	13.2	-51.4	142.7	-61.7	174.9	-234.1	-182	234	167.2	-0.3	2.7	

RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	-606.9	-3945.9	-479.1	-4674.2	-1676	-1676	-659.9	-659.9
RMS	438.3	2494.2	417.8	2594.7	2194.3	2194.3	1580.9	1580.9
1/2 P-P	820.5	4027.5	836.3	4208	3625.4	3625.4	2929.1	2929.1
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	409.6	262.1	-1234.4	-3229.8	-269	330	3348.8	-1298.1
2nd	13	343.8	-237	-554.4	-23.9	-378.6	218.4	611.4
3rd	-87.1	-82.8	-86.7	-56.5	-53.5	97.3	-77.4	97.4
4th	27.2	9.9	15.8	42.2	31.2	7.2	29.4	15.2
5th	12.9	17.4	-14.6	34.9	8.8	-15	-52	2.9
6th	-19	11.7	30.1	18.4	16	-13.6	4.2	-0.7
7th	-5.3	-1.8	10	-13.3	-7.8	4.9	10.2	-12.9
8th	11.5	-76.5	-222.8	-141.2	5.8	-55.7	-235	-168.5
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Pitch Link, lb
	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1
MEAN	-1629.2	-468	-305	-5781	-535.2	-535.2	-92.7	-92.7
RMS	1275.3	222.9	326.2	2154.3	204.5	204.5	29.9	29.9
1/2 P-P	2652.3	361.6	704.1	3547.6	340.4	340.4	54	54
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	1358.3	-847.5	-178.7	240.6	-214.3	33.3	1035.1	2791.8
2nd	212.7	23.5	-52	79	-49.1	376.9	-164.9	-204.2
3rd	137.3	-11.3	13.2	6.1	89	13.6	83.8	100.1
4th	129.9	-715.8	3	15.9	26.9	0.8	13.9	6.4
5th	155.3	68.4	-4.1	-1.9	11.9	-4.8	3	-42
6th	-1.5	3	1.2	-1.9	-26.7	11.2	9.6	6.2
7th	-14.2	-2.1	-0.5	0.6	5.1	5.5	15.6	-11.4
8th	94.5	68.8	-2.4	6.2	3.6	-72.3	-205.1	-169.3

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
14/ 8		51.4	236.2	167.6	309.3	290.7	472	390.5	386.6	560.8	390.5	19.3	
MEAN	-439.8												
RMS	375.9												
1/2 P-P	691.5												
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-273.4	-217.5	-159.1	-187.6	10.4	-217.7	103.9	-291.1	143.7	-339	239	-605.4	
2nd	30.1	-376.8	29.2	-210	-0.5	-31.4	-23.3	79.7	-44.9	116.4	-181.2	276.5	
3rd	29.9	-78.8	21.5	-46.1	4.6	-15.6	-2.3	8.6	-7.9	25.5	-27.8	146	
4th	30.6	2.7	20.7	1.1	6.1	-3.9	-5.5	-12.4	-15.8	-8.8	-34.9	25	
5th	8.9	1.7	7.1	4.4	3.8	5.5	3.7	3.9	3	6.4	-14.1	9.4	
6th	23.6	-9	11.7	-1.1	-4.9	6	-20	7.8	-24.4	11.8	9.1	-9.6	
7th	4.9	-8.9	4.4	-3.2	0.9	3	-1.1	6.6	-0.5	9.9	-2.4	-10.6	
8th	10.4	-44.7	-8	-10.7	-36	36.6	-54.4	70.1	-42.4	71.3	17.7	-119.6	
RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.725		Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Chord Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400	
14/ 8													
MEAN	-453.6		-697.8		-652.2		-6453.6			-2702.3		-470.5	
RMS	563.1		477.2		294.8		2006.4			969.1		198.5	
1/2 P-P	987.5		1041.8		847.6		3360.4			2352.8		331.5	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	306.6	-528.8	201.3	-394.7	-19.7	-111.8	-2457.6	1259.7	-823.7	673.3	167.5	-202.9	
2nd	-347.3	198.6	-300.8	140.3	-156.3	39.9	209.1	486	241.8	-91.5	-65.9	68	
3rd	-80.3	277.9	-115	287.3	-88.6	202.1	89.4	-90.7	-154.4	34.7	-9.7	-6	
4th	-4.4	43.9	-0.1	85.1	-40.8	91.8	7.8	25.7	166.6	-680.2	0.7	17.7	
5th	30.6	-38.3	73.8	-63.9	86.2	-40.7	42.8	17.7	-108.5	-98.8	5.1	0.5	
6th	50.9	-14	31.5	-40.5	30.1	-42.3	-28.8	-13.4	38.4	11.3	3.9	-3.2	
7th	17.5	-13.7	-20	14.7	-58.5	11.9	8.3	-10.4	-7.2	11.4	0.7	-1.9	
8th	-32.9	9.6	-71.7	116.7	-88.5	147.4	-214.2	-170.1	-170.1	223.9	150.4	-2.3	

RUN/POINT		Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
28/29	MEAN	-933.2	-5970.4	-891.5	-6329.5	-3091	-1362.9	
	RMS	430.9	1933.6	449.9	2187	1846.9	1267.8	
	1/2 P-P	782.3	3292.4	835.7	3638.9	3048.9	2229.2	
	HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st		234.4	314.3	272.2	-2651.3	-375.8	189	2998.5
2nd		-237	341.3	146.9	-449.2	225.5	-370.2	-133.3
3rd		-39.4	24	-66.8	-74.4	35.9	44.9	-65.1
4th		33.6	36.6	-7.8	13.4	31.4	18.7	-19.8
5th		23.6	-21	-13.4	16.2	17.9	-11.5	-20.6
6th		-24.3	2.5	23.9	17.1	13.6	-8.6	4.5
7th		-1.4	5.7	-6.5	31.2	-8.2	0.1	12.7
8th		57.6	-70.8	31.6	-143.4	39.1	-48.2	51.5
	HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st		1267.7	-191.8	-137.4	231	-124.3	-172.9	-449.5
2nd		150.8	-24.6	-52.2	38.2	-286.5	370.3	190.5
3rd		69.3	-37.6	-21	-10.9	24.6	-74.7	81.6
4th		52	-156.8	-16.5	21	30.6	21.2	-11
5th		97.9	98.6	-6.1	4.4	3.2	5.4	15.7
6th		22.2	7.3	12.5	-5.9	-24	-1	22.6
7th		-12.2	-37.7	-5.7	-3.6	0.3	-5.4	-16.8
8th		-20.9	57.1	-3.2	7.1	47.1	-80.8	47.3
	HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st		1267.7	-191.8	-137.4	231	-124.3	-172.9	-449.5
2nd		150.8	-24.6	-52.2	38.2	-286.5	370.3	190.5
3rd		69.3	-37.6	-21	-10.9	24.6	-74.7	81.6
4th		52	-156.8	-16.5	21	30.6	21.2	-11
5th		97.9	98.6	-6.1	4.4	3.2	5.4	15.7
6th		22.2	7.3	12.5	-5.9	-24	-1	22.6
7th		-12.2	-37.7	-5.7	-3.6	0.3	-5.4	-16.8
8th		-20.9	57.1	-3.2	7.1	47.1	-80.8	47.3

RUN/POINT		Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.400	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1	
28/29	MEAN	-1857.7	-420.3	-779.2	-7707	-489.4	-44.2	
	RMS	944.8	197.8	394.2	1958.2	176.7	23.5	
	1/2 P-P	1693.6	315.2	779.5	3413	292.1	43.2	
	HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st		1267.7	-191.8	-137.4	231	-124.3	-172.9	-449.5
2nd		150.8	-24.6	-52.2	38.2	-286.5	370.3	190.5
3rd		69.3	-37.6	-21	-10.9	24.6	-74.7	81.6
4th		52	-156.8	-16.5	21	30.6	21.2	-11
5th		97.9	98.6	-6.1	4.4	3.2	5.4	15.7
6th		22.2	7.3	12.5	-5.9	-24	-1	22.6
7th		-12.2	-37.7	-5.7	-3.6	0.3	-5.4	-16.8
8th		-20.9	57.1	-3.2	7.1	47.1	-80.8	47.3

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
28/29													
MEAN	-892.9		-243.5		148.6		290.3		281.7		-168.1		
RMS	367		221.9		157.1		250		279.9		504.4		
1/2 P-P	802.2		508.4		406.8		538.8		579.7		1036.6		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-122.4	-58.4	-66.3	-90.8	44.7	-168.7	118.6	-276.5	139.4	-313.1	291.6	-497.7	
2nd	283.4	-361.2	176.3	-202.8	46.9	-41.3	-39.9	70.5	-74.2	106.3	-282.6	230.4	
3rd	-53.9	-29	-23.7	-23.5	9	-15.4	29.8	-1.6	29.7	11.9	6.8	137.6	
4th	34.2	18.1	21.9	7.9	5.7	-7.6	-11.9	-15.4	-25.7	-13.1	-32.1	12	
5th	6.1	-2.9	8.8	-2.2	15	-3	19.2	1.4	14	7.9	-15.5	11.2	
6th	22	4.2	10.6	-0.1	-0.9	-6.9	-11.3	-8.6	-18.7	-5.3	14.5	12.2	
7th	0.5	1.8	7	0.3	16.2	-1.3	19.9	1.4	16.9	3.9	-7.8	-11.3	
8th	47.1	-49.4	6.8	-13.7	-54.8	31.4	-98.6	70.3	-91.5	76.9	146.6	-59.1	
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725		Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Flap Bending, in-lb Blade 1, r/R=0.900		Chord Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400
28/29													
MEAN	-505.2		-683		-581.9		-8359.4		-2668.2		-428.1		
RMS	498		425.2		317.2		1649.5		653.5		176		
1/2 P-P	920.3		952.9		805.3		2908.8		1292.7		284.8		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	271.3	-434	176.8	-316.2	-8.9	-83.9	-2238.9	-288.1	-784.4	220.2	126.5	-198.5	
2nd	-304.7	207.3	-230.9	139.6	-80.8	40.2	-150.2	387.9	199.8	-112.2	-58.1	33.5	
3rd	-52.4	262.7	-92	276.1	-72.8	205.6	89.2	-89.5	-35.3	48.6	22.1	12.9	
4th	41.8	56	39.3	80.7	-6.6	87.9	5.5	-14.6	-71.7	-224.1	-18.9	17.1	
5th	6.8	-40.2	26.3	-57.3	34.5	-29.5	11.3	21.2	-44	-99.3	8.5	-10.4	
6th	39.7	-16.6	9.7	-41.6	12.9	-44.4	-25.6	-23.8	21.5	26	12.8	-3.7	
7th	16.2	-7.6	-3.7	4.9	-25.6	0.4	-32.6	6.3	12	4.7	5.9	2.2	
8th	-40.7	13	-148.1	134.1	-169	159.7	38.3	-137.9	-29.3	135.6	-4.5	3.3	

RUN/POINT		Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.174	Blade 3, r/R=0.325	Blade 3, r/R=0.325	
MEAN	2649.9		-4897.2		2752.5		-5451.5		-2136.8		-1161.3		
RMS	556.4		6662.6		494.7		6506		5532.6		3760.8		
1/2 P-P	1045.7		10018.9		886.6		9717.5		8391.2		6598.8		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	420.4	346.4	-4759.8	-8018.9	-230.3	222.4	7410.5	-5266.7	6374	-4369.2	4024.2	-3041	
2nd	252.2	268.8	-766	-960.3	-342.2	-267.3	828.9	987.5	701.2	816.6	709.5	365.5	
3rd	-250.6	-277.9	-101.8	-322	-247.1	308.6	-310.4	166.7	-198.7	154	277.5	185.2	
4th	87.8	58.5	153.4	115.5	85	67.6	65.9	-136.5	59.1	-348.7	-19.3	-1362.6	
5th	36.6	101.1	-85.6	-2.1	-72.9	46.6	-44.9	-53	-35.8	-2.9	-44.4	196.3	
6th	-47.5	-6.5	-27.3	43.1	55.4	7.6	29.4	-36.5	22.3	-6.8	-15.9	89.1	
7th	-43.2	-21.4	-7.7	7.3	-18.6	39.6	7.2	22.1	-0.8	8.7	-23.2	-30.1	
8th	79.2	-83.2	67.3	-342.7	79.2	-71	69.6	-380.8	85	-333.4	53.4	-196.1	
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Blade 4, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Torsion, in-lb	Blade 4, r/R=0.400	Pitch Link, lb	Pitch Link, lb	
17/25	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.400		2805		-6764.2		-591.8		-53		
MEAN	-1939.1	-488.2									23		
RMS	2949.5	251.4			448		6522.1		229.3		50.2		
1/2 P-P	5564.1	401.3			835		9804.9		417.5				
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	2702.1	-2354.2	-279	190.3	-307.2	-215.7	4773	7780.9	-148.7	-266.3	15.2	15	
2nd	693.3	94.8	18.8	83.7	198.4	272.6	-703.6	-981.1	31.5	-63.4	-0.2	11.7	
3rd	509.4	157.4	-47.7	8	254.2	190.6	82.8	329	2.7	63.9	9.2	-9.1	
4th	-159	-1877.8	-24.5	-21.1	94.8	43.7	126	-46.3	-13.3	-25	-6.7	-11.6	
5th	-42.7	312.2	-4.6	11.5	-15.1	-89.4	80.9	11.6	-28.4	-14.8	-5.5	-0.3	
6th	-38	94.2	-1.9	14.8	-57.7	-5	-17	47.7	5.7	-8	-1.4	3.4	
7th	-3.3	-24.5	3.2	-9.9	44.8	27.6	53.2	3.7	-10.7	-4.3	-0.1	2.3	
8th	-24.4	126.5	-9.8	7.3	90.7	-79	104.6	-333.4	-12.5	6.9	3.4	-1.6	

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
17/25	Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.370	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.400	Blade 1, r/R=0.570	Blade 1, r/R=0.570
MEAN	2728.1	1998.7	1068.1	777.8	606.3	136.4					
RMS	470.8	284	208.3	324.2	377.9	637.8					
1/2 P-P	934.9	560	498.8	742.7	727.3	1276.3					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	SINE
1st	-325.3	-183.4	-205.5	-147.6	19.6	-215	107.6	-314.3	152.9	-379.8	262
2nd	-337.4	-221	-198	-125	-88	-9.1	-69.5	64.4	-81.1	85.9	-287
3rd	194.2	-247	114.4	-140.2	8.1	-36.1	-75.2	46.9	-113.1	81.2	-272.6
4th	69	61	38.8	23.8	2.5	-34.5	-37.4	-68.7	-67.4	-70.7	-53.4
5th	119	-23.2	47.4	-8	-44.5	1.3	-127.1	11.9	-155.9	22.6	-7.9
6th	54.8	9.4	21.7	4.9	-21.1	-3.3	-60.1	-14.9	-69.6	-17.3	46
7th	15	-42.3	1.1	-8.1	-23.5	37.7	-43.7	72.2	-43.2	74.7	85.1
8th	67.6	-59.6	3.5	-23.7	-93.2	22.7	-161.3	63.7	-145.4	77.4	206
RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
17/25	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.400	Blade 1, r/R=0.570
MEAN	-540.1	-952.8	-1071.8	-7228.9	-2636.4	-493.2					
RMS	822.8	861.2	705.8	6258.5	2337.6	230.7					
1/2 P-P	1668.9	1982.3	2046.9	9205.6	4835.3	403.2					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	SINE
1st	325.3	-585	229.1	-488.6	-51	-209.1	-6861.1	5429.6	-1722.1	1664.5	267.8
2nd	-569	96.1	-586.8	56.9	-409.8	18.9	909	799.4	689.4	-76	23.2
3rd	-246.5	519.2	-305.2	492.1	-281.6	340.5	346.2	-143.7	-555.6	-163.2	36.7
4th	156.1	199	233.9	288.3	144.6	256.7	-62.7	-26.1	387.7	-1991.3	-39.8
5th	349.6	-106.9	437.9	-147.8	377.7	-72.1	8.9	37.5	109.1	-224.8	4.7
6th	81.1	16.8	10.1	-53.6	-12.1	-96.5	-12.4	-39.9	-20.2	30.7	2.1
7th	-15.4	-4.6	-120.2	129.7	-189.3	110.8	27.9	-6.5	-76.9	-16.1	-1.3
8th	-84.8	-16.1	-245.7	170.3	-270	259	117.5	-92.5	348.1	-9.2	7.4

RUN/POINT		Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
		Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	1275.5	-5736.9	1358.9	-6289	-2884.6	-1367.9			
RMS	341.7	3828.6	330.4	3969.9	3394.8	2406.9			
1/2 P-P	772.5	5778.9	660.7	6046.8	5247.1	4260.7			
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	216.7	-80.6	-2168.8	-4905.4	160.5	121.8	4969.6	-2501	4296.9
2nd	-99.7	271.2	-269	-533.7	98	-288.8	261.3	528.5	235.7
3rd	-151.3	-200.5	-99.1	-227.6	-165.9	184.3	-205.6	124.2	-158.9
4th	48.5	62.9	22.9	98.6	51.7	61.7	20.3	-46.4	54.6
5th	91.6	-18.4	-37.4	33.9	17.5	60.7	-85.6	-24.9	-22.5
6th	-41.2	-5.6	34.5	4	30.6	1.5	-45.6	-49.1	-11.1
7th	-18.8	1.2	-11.3	-17.3	-2.5	9.3	-5.9	-18.2	-17.1
8th	78.8	-71.8	99.2	-230.9	60.3	-53	137.1	-265.2	110.8
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Blade 4, r/R=0.144	Torsion, in-lb	Blade 4, r/R=0.144	Torsion, in-lb	Pitch Link, lb
		Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1
MEAN	-2042.2	-477.1	1468.6	-7671.6	-564.8	-60.9			
RMS	1930	226.7	361.8	3696.3	208.1	16.4			
1/2 P-P	3736.1	378.7	721.8	5605	366.5	34.8			
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	1960.7	-1334	-206.3	218.6	-107.6	269.8	2166.5	4708.9	-179.6
2nd	451.3	-37.5	-69.6	56	-167.3	279.7	-183.6	-495.5	85.6
3rd	282.8	121.3	-40	-28.8	153.6	140.9	80.7	239.7	-22
4th	195.8	-1125.8	-13.6	19.3	57.8	53.9	29.7	-22.5	-15
5th	184.1	264.2	-23.4	12.1	-53	18.3	40.1	-24	-15.3
6th	45.3	89.1	8.9	-2.3	-45.3	-5.7	36.5	47.8	-8.9
7th	-14.5	-8.6	5.4	-5.4	23.7	0	9.4	-17.6	-4.3
8th	-43.4	81.2	-9.7	9.7	80.9	-60.4	110	-216.1	-14.2

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	17/24	Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.370	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570
MEAN	1419.3	1185.6	742	635.2	489.3	21.6				
RMS	566.9	344.3	177.8	281.9	333.5	622.8				
1/2 P-P	992	607.3	392.4	577.3	688.9	1241.4				
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-704.1	-32.8	-430.1	-69.6	-79.3	-172.5	83.1	-285.5	131.3	-365.3
2nd	115.4	-263.4	70.3	-144	9.7	-11.3	-79.4	75.6	-108	282
3rd	154.3	-142.3	89.3	-83.3	4.7	-27	-62.3	16.7	-79.8	-378.8
4th	42.4	37.1	26.2	14	5.9	-23.1	-20.2	-46.4	-43.2	-239.1
5th	15.9	-65.4	11	-24.7	7.2	20.7	-0.2	65.4	-21.2	-46.7
6th	35.4	9.1	17.5	6.5	-0.6	0.9	-20.7	-4.6	-38.8	-10.6
7th	-3.9	-19.3	-1.7	-0.4	-2.9	28.7	-8	47.5	-5.7	9.7
8th	60.5	-43.3	1.8	-12.4	-89.3	28.1	-155.1	58.1	-131	189.8
										-31
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	17/24	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.400	
MEAN	-531.2	-856.9	-910.9	-8199.8	-2783.6	-476.4				
RMS	706.7	669.8	502.7	3487.4	1481.9	210.1				
1/2 P-P	1353.5	1442.4	1349.2	5242.3	3151.4	369.3				
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	328.9	-553.3	236.1	-416.7	-25.4	-145.6	-4172.6	2548.1	-1243.5	1021.5
2nd	-525.7	122.4	-478.8	89	-258.3	38.7	280.6	402	516.1	-155.5
3rd	-281.2	345.2	-345.7	313.4	-280.6	219.3	242.8	-61.8	-364.5	-106.6
4th	61.4	111.2	88.3	156.2	19.1	149.7	-1.4	-49.7	281.9	-1047.8
5th	70.6	-200.2	111.5	-245.4	111.1	-136.6	35.1	47.4	-76.1	-268.5
6th	52.7	7.1	10.9	-36	-8.9	-55	-26.7	-33.5	3.4	51
7th	-4.1	-5.7	-66	78.2	-103.8	65.1	15.4	-23.6	-29.6	17.1
8th	-66.3	-2.4	-235.1	128.7	-245.6	179.5	128.1	-212	-106.2	202.1

RUN/POINT		Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
		Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	69.6	-6180.3	138.5	-6695.8	-3302.7	-1491.2			
RMS	325.5	2584.6	301	2693.3	2299.8	1655			
1/2 P-P	707	3946.2	652.2	4112.1	3527.3	2927.8			
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	268.8	63.6	-792.1	-3520	-37.4	165.5	3670.8	-811.3	3148.4
2nd	-151.8	292	-84.1	-502.1	154.9	-326.8	50.8	531.4	67.9
3rd	-54	-87.5	-78.5	-110.6	-68.4	78.5	-107.2	71.2	-67.8
4th	37.7	43.8	24.7	46.5	42.7	37.6	10.1	-24	32.9
5th	21.3	-27.1	-13.1	26.9	33	-8.4	-43.4	-8.2	-14.9
6th	-29.6	-4.8	26.4	23.2	29.2	0.4	-10.1	-24.6	-19
7th	-3.2	8.2	-29.8	48.5	1.1	2.2	0.4	46.8	-7.5
8th	72.6	-59.5	90.3	-153	49.7	-29.7	116.9	-167.5	107.9
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb		Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Pitch Link, lb	Pitch Link, lb	
		Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1	Blade 1
MEAN	-2010	-455.9	287.6	-8054.7	-533	-68.7			
RMS	1303.9	212.8	318.8	2393.4	191.5	22			
1/2 P-P	2604.6	343.9	654.1	3650.8	319.3	40.6			
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	1548.1	-680	-170.4	230.4	-105.4	153.4	606.6	3286.2	-192.7
2nd	302.3	-23.3	-60.2	41.4	-213.2	325.3	5.1	-454.5	68.4
3rd	140.6	5.1	-34.2	-13.7	46.7	28.4	72.9	130.5	-8.5
4th	130	-557.9	-24.6	20.5	35.5	30.3	-7	-32.3	-25.2
5th	133.9	107.4	-9.8	9.9	15.3	4.5	22.4	-15.3	-13.5
6th	26.3	35.8	11.9	-5.4	-31.2	-0.7	24.3	15.2	-13.6
7th	-8.2	-50.1	-1.5	-3.3	4.3	-1.3	-4.9	17.2	-3.2
8th	-45	60.2	-7.8	7.1	68.7	-59.7	116.9	-131.2	7.9

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
		Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.370	Blade 1, r/R=0.570	Blade 1, r/R=0.400	Blade 1, r/R=0.570	Blade 1, r/R=0.400
MEAN	209.4	433.4		425.3	485.9		373.3		-109		
RMS	430.8	261		156.6	254.6		304.3		564.7		
1/2 P-P	790.2	500.2		344.3	512.6		582.7		1070.3		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-473	-62.7	-282.1	-96.4	-29.5	-183	100.3	-289.8	145.4	-346.7	315.1
2nd	174.4	-314.2	108.8	-174.2	14.1	-27.5	-56.3	72.3	-94.9	108.4	-329.9
3rd	49	-50	32.2	-32.6	11.9	-18.7	-7.3	-4.1	-22	9.2	-99.6
4th	35.3	22.8	22.5	11.1	5.2	-7.8	-15.7	-19.9	-34.2	-18	-36.5
5th	17.7	5.5	11.3	2.7	7.5	-4.4	1.8	-5.5	-9.1	-1.7	-12.3
6th	28.1	8.9	11.8	3.1	6.4	-6.8	-22.8	-13.7	-30.2	-11.4	24.9
7th	-4.7	-1.2	-0.3	3	5.8	9.4	7.9	15.4	5.5	17.1	13.6
8th	50.7	-36	3	-10.1	-68.2	19.7	-120.1	45.7	-112.7	52.6	162
RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
17/23	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.370	Blade 1, r/R=0.570	Blade 1, r/R=0.400	Blade 1, r/R=0.570	Blade 1, r/R=0.400
MEAN	-546	-784.8		-729.8	-8634.6		-2759.1		-457.6		
RMS	589.5	516.2		357.6	2133		928		190.6		
1/2 P-P	1072.9	1225.6		975.1	3310.9		2007.6		325.6		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	319.3	-520.3	222.1	-395.3	-6.1	-120.2	-2854.1	826.6	-979.2	542.4	159.9
2nd	-408.1	174.9	-338.6	117.6	-161.1	42.2	71.4	421.9	338.2	-119.2	-66.9
3rd	-163.3	261.3	-204.5	257.4	-161.7	182.1	128.6	-68.3	-144.7	-22.9	30.2
4th	50.7	81.2	62.2	118.1	5.5	113.3	-0.7	-36.6	169.6	-447.2	-26.3
5th	50.1	-17.8	84.8	-25.5	84	9	22.5	3.5	-47.3	-88.1	16.9
6th	46.6	2.1	7.8	-37.2	3.7	-46.2	-8.7	-31.9	11.1	44.8	14.8
7th	3.7	-3.2	-33.3	22.6	-57.2	7.3	-29.3	6.6	13.3	1.9	-3.8
8th	-56.7	-1.8	-190.6	98.3	-211.4	130.7	113.9	-135.6	-97.2	133.5	-8.4

RUN/POINT		Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
		Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325				
MEAN	-541.3	-6320.1	-489	-6819.2	-3428.6	-3428.6	-3428.6	-1491.3	-1491.3
RMS	515	2458.9	506.8	2615.4	2210.8	2210.8	2210.8	1545.2	1545.2
1/2 P-P	1008.9	4016.4	991	4131.8	3422.4	3422.4	3422.4	2800.1	2800.1
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	417.1	402.8	-204.8	-3408.6	-434.6	339	3629.3	-206.6	3077.2
2nd	-177.4	353	14.8	-547.3	189.6	-373.3	-65.3	559.6	-35.2
3rd	-41.3	-10.7	-85.9	-92.6	14.2	68.4	-88.9	74.4	-57
4th	28.4	35.9	2.2	32.6	34.3	30	-7.2	-31.7	-4.8
5th	33.6	-60.8	-23.3	54.4	62.5	-0.6	-90.7	-8.6	-40.7
6th	-18.4	0.8	18.8	17.9	20.2	-1.3	-16.5	-16.2	-7.4
7th	-4.7	3.9	10.5	44	-2.3	3	21.4	41.6	9.8
8th	75.2	-67.8	65.8	-123.6	54.3	-28.1	90.6	-144.4	80.6
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Pitch Link, 1b	Pitch Link, 1b
17/22	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1	Blade 1
MEAN	-1980.9	-442.9	-314.4	-8179.5	-514.9	-514.9	-514.9	-71.2	-71.2
RMS	1170.6	208.9	425.2	2335.3	184.8	184.8	184.8	26.9	26.9
1/2 P-P	2207.8	333.9	927.2	3726.9	302	302	302	48.5	48.5
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	1519.3	-401.6	-159.2	234	-284.2	-196.6	7.6	3241.4	-194.6
2nd	206.5	-9.8	-56.5	40.1	-246.6	383.5	107.8	-494.4	60.9
3rd	85.4	-28.3	-29.2	-9	35.4	-54.6	80.6	115.6	-5.4
4th	-30.2	-263.9	-21.1	23.7	27.5	20.5	4.4	-29.5	-20.4
5th	234.2	81.3	-4.1	7.1	8.3	41.2	23.9	-59.5	-11.7
6th	28	19	10.5	-3.2	-18.6	1.5	18.9	3.8	-12.4
7th	-24.6	-38.1	-3.2	-4.1	6.7	3.5	18.1	17.7	-3.4
8th	-45.4	57.6	-6.4	6.4	72	-49.5	94.4	-106.7	-11.1

RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.144	Flap Bending, in-lb Blade 1, r/R=0.167	Flap Bending, in-lb Blade 1, r/R=0.215	Flap Bending, in-lb Blade 1, r/R=0.280	Flap Bending, in-lb Blade 1, r/R=0.325	Flap Bending, in-lb Blade 1, r/R=0.570
MEAN	-383.4	66.3	272.8	417.6	318.6	-168.5
RMS	385.7	245.4	184.3	265.7	307.8	550.7
1/2 P-P	736.7	482.8	419.5	519.6	567.2	1061.7
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-151.5	-233.2	-81.4	-201.2	51.4	-297.4
2nd	219	-381.4	136.8	-212.9	26.1	-49.2
3rd	-38.3	-47.2	-15.2	-32.4	7.9	-16.7
4th	24.9	7.8	16.6	4.7	2.8	-3.7
5th	-20.1	-11.1	-3.2	-3	19.6	4.1
6th	12.7	3.2	6.2	1	-1.6	-4.2
7th	-1.2	-2.2	1.7	3.8	4.2	10.3
8th	48.5	-33.7	2.4	-9.8	-65.1	17.4
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800	Flap Bending, in-lb Blade 1, r/R=0.900	Flap Bending, in-lb Blade 1, r/R=0.144	Chord Bending, in-lb Blade 1, r/R=0.570	Torsion, in-lb Blade 1, r/R=0.400
MEAN	-554	-751.9	-646.1	-879.1	-2757.6	-444.6
RMS	538.3	444.4	308.9	2025.6	803.4	185.6
1/2 P-P	1010.2	979.3	837.2	3415.8	1621.6	311.1
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	317.5	212.9	-339.2	-3.5	-82.6	-2785.5
2nd	-338.3	210.6	-256.1	141.2	-98.5	40
3rd	-76.8	258.1	-108.8	255.4	-85	183.9
4th	37.5	57.8	31.7	78.9	-17.8	84.4
5th	-29.4	-52.1	-11.6	-71.2	13.6	-38.8
6th	35.2	-6.6	5.7	-37.2	8	-44.9
7th	11.4	-0.9	-32.5	23.7	-59.3	15.3
8th	-49.5	2.3	-180.7	90.7	-200.6	112.4

RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	-1167.6	-6378.8	-1143.7	-6848.4	-3491.6	-1497.9		
RMS	566.5	2007.3	592.4	2166.8	1822.8	1261.9		
1/2 P-P	1032.2	3215.9	1004.2	3503.8	2931.3	2126.5		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	403.7	456.5	256.7	-2763.6	-541.2	344.3	2979	305
2nd	-279	416.8	175.1	-510.5	287.8	-438.8	-236.5	549
3rd	1.2	32.9	-67.4	-55.1	60.8	8.1	-58.8	88.3
4th	26.5	34	-13.4	19.1	29.1	24.7	-18.2	-10.1
5th	17.7	-29	-12.3	35.3	37	-13.8	-30.5	-10.6
6th	-21.2	3	30.1	8.8	19.7	-6.1	-5	-5.8
7th	2.6	5.6	-39.6	18.6	-5.6	-8.2	-19.1	34.1
8th	64.7	-70.7	41.8	-95.3	40.1	-33.7	57.4	-105.3
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Pitch Link, lb
	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1
MEAN	-1968.6	-424	-947	-8195.9	-490.2	-490.2	-72.8	
RMS	946.7	204.7	490.6	1873.4	179.6	179.6	26.6	
1/2 P-P	1713.7	324.7	926	3086.1	290.4	290.4	48.5	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	1289	-195.4	-143.6	236.7	-283.1	-245.3	-471	2537.1
2nd	94.2	-17.4	-54.4	41.2	-338.4	450.7	266	-477.7
3rd	17.8	-57	-31.7	0.5	-13.2	-95.6	82.3	79.5
4th	78.6	-55.9	-17.3	25.2	24.7	16.4	2.1	-37.5
5th	127.9	66	0.7	8.6	30.1	15.2	-1	-23
6th	38.6	-3.2	11.2	-7.3	-21.7	6.6	22	-0.2
7th	5	-38.1	-6.9	-2.8	-1.2	-0.2	-24.7	-8.8
8th	-22.8	44.8	-3.1	6.8	54	-65.3	50	-84.3

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
MEAN	-1006	-317.5	118.4	355.5	271.7	-214.2							
RMS	428.2	266.6	179.4	258.1	299.7	538.2							
1/2 P-P	794.1	495.1	416.5	512	558.1	1088.1							
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE		
1st	-89.4	-210.4	-39.8	-186.9	66	-208.1	139.7	-282.9	172.8	-326.4	354.7		
2nd	326.9	-437.7	203.2	-245.2	53.9	-50.7	-39.7	77.5	-80.7	124.2	-280.2		
3rd	-76.7	4	-37.2	-3.1	8.4	-10.5	37	-11.3	41.7	-3.2	28.1		
4th	23.9	11.4	16.4	6.9	5.1	-0.8	-5.9	-8.8	-18.6	-5.7	-26.9		
5th	0.7	15.6	6.5	7.6	16.7	-4.9	24.4	-14.7	18.3	-14.7	-17.7		
6th	18.4	-2.3	8.7	-1.5	-2.6	-2.2	-13.8	-2	-19.2	1.4	12.8		
7th	-1	4.4	3.6	4.2	10.3	3.5	12.8	3.3	8.2	5.3	-0.1		
8th	52.7	-38.1	6.9	-8.6	-60.2	26.6	-110.4	55.1	-103.6	60	155.1		
MEAN	-545.8	-703.6	-554.3	-883.4.8	-2764.1	-426.5							
RMS	506.8	411.4	279.3	1580.3	619.5	179.8							
1/2 P-P	937.8	929.6	732.9	2686.9	1120.8	293.2							
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE		
1st	306.7	-463.2	197.8	-335.7	-3.4	-83	-2126.4	-353.5	-793.7	193.8	132.8		
2nd	-264	258.1	-174.9	179.7	-40.4	51.6	-223.8	470.4	157	-100.7	-59		
3rd	-50.9	216.5	-84	234	-58.6	174.1	86.3	-77.5	-9.3	62.8	30.3		
4th	40.2	45.5	35	61.6	-7.2	74.6	12.9	-28.4	-43.7	-4.9	-22.2		
5th	-7.4	12.8	17.3	6	23.3	15	29.5	6	-59.9	-52.6	2.5		
6th	40	-20	15.2	-39.4	20	-37	-8.6	-2.4	25.5	2.1	11.9		
7th	14.7	-1.2	-14	5.6	-33.3	-2.2	-39.6	-18.4	31.7	22.3	6.8		
8th	-45.6	9.9	-174.7	103.6	-197.3	119.2	51.2	-91.4	-36.9	86.2	-4.8		

RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	-2505.5	-6439.1	-2498.9	-6882.6	-3583.6	-1421.6		
RMS	629.2	1301.4	677	1444.3	1213.5	859		
1/2 P-P	1104.7	2244.3	1159.9	2480.5	2056.5	1538.1		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	426.5	505.5	781.4	-1587.7	-632.2	360.1	1764.1	847.5
2nd	-276.6	462.1	198.4	-413.4	287.7	-484.5	-266.7	464.7
3rd	143.4	177.4	-93.4	-25.2	206.4	-125.2	40	112.9
4th	1.9	-3.8	24.6	23.5	1.8	-14.3	-18.9	11.3
5th	4.3	-54	30	38.3	65.3	-32.9	-63.4	26.8
6th	-7.5	-1.2	5.2	9.8	5.2	-7.8	8.9	14.5
7th	10	1.5	3.6	-5.6	-9.1	-9.7	23.6	9.4
8th	30.4	-61.9	1.4	-49.5	16.5	-44	3.7	-63.5
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Pitch Link, lb
	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1
MEAN	-1871.5	-385.9	-2263.4	-8183.2	-441.7	-76.4		
RMS	676.1	203.7	549.6	1223.3	176.7	25.8		
1/2 P-P	1295.8	311.5	970.5	2134.3	274.7	40.2		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	889.2	81.5	-120.3	250.9	-280.1	-283.5	-987.7	1316.7
2nd	37	2.4	-33.8	39.9	-323.2	498	270	-397.5
3rd	-20.6	-60.7	-37.8	5.9	-150.9	-243.6	111.6	64.5
4th	16.5	152.9	0.1	30.2	-11.4	-23.3	-7.5	-35.8
5th	222.4	-33.7	5.4	2.4	42.2	38.1	-45.5	-38
6th	14.6	-23.4	7.3	-6.3	-12.3	6	7.2	-17.7
7th	-19.1	-11.5	-7.8	-0.3	-6.4	3.1	3.8	-22.9
8th	8	38.5	2.1	6	30.9	-49.3	6.9	-57.1

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325	
17/20		-2331.7	-1140.2	-228.4	198.5	146.2	146.2	-334.9			
MEAN		487.1	300.3	189.1	258.7	295.8	295.8	521.1			
RMS		810.4	524.7	430.3	475.2	570.2	570.2	995.4			
1/2 P-P											
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-3.4	-243.8	18.1	-207.6	83.6	-208.5	146.5	-267.9	177.3	-302.8	381.6
2nd	320.8	-485.5	201.3	-273.6	59.8	-59.3	-25.7	79.3	-61.8	130	-237.8
3rd	-219.9	143.4	-118.5	71.8	2.4	2.9	84	-39.5	110.5	-48.4	180.2
4th	-6.4	-20.4	0	-8.4	4.7	5.2	5.8	13.2	-0.5	20	-18.7
5th	-35.7	19.8	-7	8.1	32.3	-6.5	66.4	-19.6	69.9	-23	-19.5
6th	5.3	1.2	3.6	2.6	3.2	3.9	1.8	5.7	-1.6	6.6	4.5
7th	6.8	5.8	8.6	3.1	13	-1.3	12	-3.4	5.5	-1.5	-8.3
8th	23.2	-30.5	2	-7.2	-28.9	22.8	-53.1	46.8	-49.4	49.1	83.3
17/20											
MEAN	-532.2	-580.3	-336.9	-8840.2	-2727.9	-2727.9	-2727.9	-385.7			
RMS	474.1	363.3	272	1070.7	493	493	493	175.6			
1/2 P-P	905	802.7	680.8	1897.2	1124.1	1124.1	1124.1	279.7			
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	304.6	-426.9	188.1	-304.7	12.1	-66.5	-1053	-950.7	-565.1	-18.6	108.5
2nd	-183.4	295.4	-99.4	204.8	-5.5	51.2	-240.9	394.8	95	-76.7	-36.3
3rd	68.7	120.7	43.9	179.5	50.4	154.6	64.1	-115.8	57	54.3	40.1
4th	-2.2	-16.8	-40.4	-32.1	-71.2	6.1	34.8	-16.3	-144.9	212.5	-3.3
5th	-110	41.7	-96.1	38.9	-71.4	18.3	70.3	-18.3	-163.7	-3.4	28.7
6th	20.8	-28.6	9.9	-22.3	31.2	-16.5	-22	8.3	38.1	-15	-6.5
7th	24.5	-2.4	0.1	-19	-19.6	-11.1	-10	-30.7	10.3	28.7	7.8
8th	-23.5	10.7	-86.5	86.7	-112.6	86.9	6.2	-48.5	-0.5	41.4	-0.2

RUN/POINT		Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
		Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325	
MEAN	-3752.9	-6468	-3772.8	-6874.1	-3636.9	-1353.2					
RMS	909.2	1317.2	1046.4	1445	1188.2	804.1					
1/2 P-P	1620.8	2083.7	1833.4	2354	1940.9	1496.8					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-21.6	1036.3	1407.9	-1102.5	-1241.2	-91.2	1297.6	1461	1028.5	884.7	
2nd	-302.7	583.9	262.9	-380	333.6	-604.8	-339.6	419	-265.4	302.2	
3rd	219.4	286	-120.5	-27.9	320.8	-188.2	-44.8	126.6	-21.2	82.9	
4th	-23.9	-37.9	61.7	20.6	-16.1	-42.7	2.9	16	-24.5	30.8	
5th	-54.7	-31.6	91.1	8	57.6	-95.7	-45.6	104	-15.3	50.7	
6th	1.1	5.8	-1.4	-3.9	-10.5	-15.5	23.6	-0.3	20.2	-2.7	
7th	10	-3.4	17.7	39.8	-9.3	-12.1	36.3	42.7	20	32.6	
8th	-19.4	-45.2	-21.7	-19.1	-35.1	-24.4	-20.7	-19.6	-15	-11.5	
RUN/POINT		Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Pitch Link, lb	
		Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 4, r/R=0.400	Pitch Link	Blade 1
MEAN	-1797.9	-354.2	-3492.8	-8154.5	-398.9	-80.2					
RMS	641.5	217.1	856.7	1363.5	190.3	24.5					
1/2 P-P	1270.8	338.7	1570.5	2239.1	305.6	44.8					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	713.9	323.6	-113.5	265.9	157.3	-843.4	-1594.7	924.1	-231.5	-108.3	29.4
2nd	-16.7	-5.8	-26.3	60.7	-373.4	612.7	348.7	-363.1	21.8	-50	-0.4
3rd	11.7	-54.1	-48.7	30.3	-229.5	-374.1	138.9	73.8	16	37	-0.3
4th	-198.2	141.6	9	49.1	-41.6	-54.4	18.7	-22.8	17.4	43	2.7
5th	194.8	-261.1	4	-4.8	96.7	26.5	-102.9	-38.1	2.8	-0.8	8.4
6th	-15.2	-23	0.1	-4.6	5.6	18.6	-18.5	-33.6	-2.7	6.3	-1.4
7th	-34.9	-20.8	-6.9	2.7	-8.7	5.9	13.1	19.8	0.9	5.4	-0.5
8th	22.6	13.4	7.5	2.6	-18.3	-29.1	-23.8	-10.7	5.2	4.2	0.5

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb							
		Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325
MEAN	-3557.9		-1900.8	-549	54.3	30.6	-447.5				
RMS	708.5	419.2	199	263.5	314.3	566.7					
1/2 P-P	1350.4	793.3	382.5	614.6	656.1	1086					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	535.8	181.8	351.4	59.1	221.4	-89.4	205	-210.9	221.7	-255.6	444.8
2nd	356.7	-610.8	225.3	-347.7	71.2	-79.6	-18.5	91.7	-53.2	153.3	-195
3rd	-343.4	211.4	-188.7	108.7	-5	9.9	119.9	-53.3	164.9	-71.5	319.7
4th	-36.7	-55.7	-14.8	-27.2	4.3	8.1	15.4	31.5	14.8	44.1	-6.5
5th	-27.3	77.3	-4	30.5	33.3	-27.3	65.6	-81.8	66	-99.1	-26.2
6th	-6.7	-7.2	-1.2	-0.9	5.7	8	11.2	16	10.5	17.3	-5.2
7th	6.5	9	6.4	3.7	7	-5.6	5.4	-10.7	0.2	-8.2	-7.4
8th	-18.5	-30.7	-1.5	-5.3	19.1	30.2	31.1	58.1	30	55.6	-5.7
17/19	Flap Bending, in-lb	Blade 1, r/R=0.725	Flap Bending, in-lb	Blade 1, r/R=0.800	Flap Bending, in-lb	Blade 1, r/R=0.900	Flap Bending, in-lb	Blade 1, r/R=0.144	Chord Bending, in-lb	Blade 1, r/R=0.570	Torsion, in-lb
MEAN	-505.8	-462	-134.2	-8828.4	-8828.4	-1303.1	-1303.1	-2709.4	-2709.4	-8828.4	-349.5
RMS	520.1	424.1	285.2	506.7	506.7	873.5	873.5	1114.2	1114.2	873.5	185.2
1/2 P-P	1125.5	873.5	748.8	2091.9	2091.9						297.3
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	330	-413.9	191.9	-302.9	23.3	-74.7	-698.3	-1611	-467.5	-179.1	99.4
2nd	-58.8	379.6	27.6	265.2	66.2	58.7	-311.7	382.4	39.2	-71	-223.8
3rd	196.2	66.5	178.8	165.9	166.3	159.9	72	-132.7	34.2	63.2	51.4
4th	-22.7	-62.6	-93	-112.8	-113.5	-51.9	59.5	-2.3	-320.8	210.1	-14.7
5th	-117	193.5	-92	21.3	-81.6	111.6	59.1	-93.2	-168.2	11.5	44
6th	6.8	-41.3	3.4	-0.4	41	14.3	1.9	13.1	9.9	-172.6	3.7
7th	29	4.2	2.7	-36.4	-21.5	-9.3	-4.7	24.5	5.6	-29.6	-5.7
8th	7.6	26.1	36.5	101.2	5.2	86.4	-23	-7.8	23.3	6.3	-3.1

RUN/POINT		Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
		Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	1699.6	-1338.5	1809.1	-1891.3	790.8	499.3				
RMS	426.3	5016.8	377.6	4915.7	4170.4	2766.3				
1/2 P-P	814.9	7548.1	695	7498.6	6387.4	4692.1				
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	296.4	226.3	-4478.8	-5426.9	-147.5	236.4	5144.7	-4579.8	4423.6	-3819.5
2nd	253	55.5	-672.7	-448.3	-248.8	-89.9	713.3	470.4	582	396.4
3rd	-232.2	-289.1	-2.8	-247.2	-266.2	225	-222.7	-21.8	-149.4	-3.3
4th	37.4	43.5	19	130.3	46.5	42.3	63.2	-61.9	61	-201.6
5th	107.6	4.1	-87.8	59.5	-2.4	97.5	-79.6	-86.3	-32.6	-19.9
6th	-23.3	3.2	-9.2	8.4	23.7	0	8.8	-30.9	7	-8.5
7th	5.7	12.1	7.5	7.9	7	-5.2	12.8	28.2	6.1	15.9
8th	1.6	-54	-166.4	-157.3	3.7	-26.4	-168.6	-171.4	-136.2	-163
RUN/POINT		Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Pitch Link, lb
41/18	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1	Blade 1
MEAN	-989.8	-502.9	0	-3146.2	-588.2	-71.3				
RMS	2129.2	186.1	0	4902.7	182.6	8.3				
1/2 P-P	3906.5	321.8	0	7439.4	312.2	17.1				
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	1694	-2045.5	-182.6	172.8	0	0	4439.6	5257.7	-152.6	-195.7
2nd	341.3	24.4	-38.7	56.9	0	0	-621.8	-443.8	55	-32.8
3rd	353	74.6	13.5	-0.9	0	0	-38.2	233	2.2	-7.3
4th	-113.8	-1233	8.4	29.6	0	0	26.8	-59.3	13.6	23.5
5th	200.3	398.8	-5.2	10.7	0	0	77.9	-50.8	-10.4	-6
6th	14.5	49.2	2.3	-0.7	0	0	-11.9	20.1	-1.8	0.3
7th	-32.9	-25.1	2.2	-1.5	0	0	31.7	0.8	-1.6	-1.3
8th	62.9	52.7	-0.8	4.5	0	0	-138.2	-154.9	-1.8	6.1
									0	0.2

RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.144	Flap Bending, in-lb Blade 1, r/R=0.167	Flap Bending, in-lb Blade 1, r/R=0.215	Flap Bending, in-lb Blade 1, r/R=0.280	Flap Bending, in-lb Blade 1, r/R=0.325	Flap Bending, in-lb Blade 1, r/R=0.570
MEAN	1771.6	1457.8	890.6	0	633.6	275.5
RMS	352.5	211.9	147.1	0	274.1	474.7
1/2 P-P	689.1	401.4	296.8	0	563.8	967.9
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-233.6	-177.2	-146.8	-135.6	6.3	-192.1
2nd	-198.6	-95.4	-109.7	-52.2	-45.2	5.6
3rd	242.7	-207.4	140.3	-115.2	13	-28.9
4th	35.9	35.6	20.7	10.5	6.2	-23.3
5th	11.1	-77.3	5.4	-29.3	-8.4	28.3
6th	20	-1.5	8.6	-2	-8.1	-4.4
7th	-7.4	4.6	1	0.5	12.1	-2.7
8th	-6.5	-39	-8.1	-12.5	-12.2	26.2
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800	Flap Bending, in-lb Blade 1, r/R=0.900	Flap Bending, in-lb Blade 1, r/R=0.144	Chord Bending, in-lb Blade 1, r/R=0.570	Torsion, in-lb Blade 1, r/R=0.400
MEAN	-268.2	-712.5	-913.2	-3454.2	-2142.9	-501.6
RMS	551.2	565.2	384.6	4773.1	1733.6	171.9
1/2 P-P	1112.2	1211.3	878.7	7150.1	3359.2	309.6
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	54.7	-488.1	97.6	-360.9	-20	-112
2nd	-412.1	28.1	-520.5	0	-364.7	11.8
3rd	-230.7	300	-223.7	268.5	-243.1	148
4th	-9.7	45	64	107.8	84	82.5
5th	83.8	-197.2	76.5	-270	112.2	-151.2
6th	45.6	-2.8	20.7	-11	-41.3	-25.8
7th	-0.2	-7	9.9	-4.4	-8.5	-22.4
8th	-23.3	15.6	-22.5	79.5	6.2	104.8

RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	369.1	-2638.2	441.2	-2972.2	-199.6	-199.6	-140.1	
RMS	296.7	2986.8	282.2	2953	2504.3	2504.3	1721.6	
1/2 P-P	544	4641.2	493.8	4652	3981.8	3981.8	3067.4	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	244.8	53.7	-2536.3	-3318.4	-41.9	215.5	3236.6	-2553.3
2nd	182.9	75.9	-454.5	-307.4	-182.9	-105.8	451.7	365.7
3rd	-176.8	-167.8	48.3	-143.5	-152.1	174.8	-136	37.9
4th	31.7	37.6	0.5	55.3	40	34.2	32.2	-44.4
5th	81.9	-38.2	-78.6	96.3	46.2	67.7	-113.8	-99.9
6th	-16.8	5.9	9.3	3.3	18.9	-2.3	6.6	-7.4
7th	2.6	13.5	13.7	12.4	10.3	-4.2	30.8	32.6
8th	8.4	-40.1	-116.6	-132	10.4	-20.1	-121.1	-144.1
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Pitch Link, lb
	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1
MEAN	-1110.8	-488.7	0	-4384.4	-566	-566	-89	
RMS	1351.5	171.6	0	2840.1	163.6	163.6	11.8	
1/2 P-P	2606.1	291.3	0	4489	285.5	285.5	24.4	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	1133.7	-1239.3	-145.2	183.6	0	0	2480.8	3102.9
2nd	222.7	2.8	-38.2	42.9	0	0	-404.6	-295.5
3rd	216.1	34.3	18.2	2.7	0	0	38.9	159.2
4th	-11.9	-713.8	5.1	19.1	0	0	17.2	-40.3
5th	292	324.8	2.6	6.6	0	0	82.2	-89.9
6th	16.2	10.2	2.8	-0.8	0	0	7.2	10.4
7th	-27.1	-14.4	0	-2.3	0	0	25.1	-9.4
8th	40.2	48.3	-0.4	3.3	0	0	-94.7	-139.1

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
		Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325
MEAN	435.1	626.6	550.5	0	0	508.5	129.9	834.2	404.4	98.3	-469.7
RMS	319.3	196.3	128.6	0	0	236.3	404.4	488.9	834.2	173.5	-146.5
1/2 P-P	623.2	365.6	242.6	0	0	0	129.9	0	0	-1.2	-30.5
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	SINE
1st	-336	-123.8	-205.1	-110.7	-31.8	-167.5	0	0	59.1	-285	86.5
2nd	-119.5	-115.4	-62.5	-62.9	-25.9	0.1	0	0	-25	59.8	-186.1
3rd	125.8	-152	74.4	-86.3	6.9	-22.4	0	0	-70.6	54.6	-186.1
4th	33.9	27	19.6	9.1	3.9	-16.8	0	0	-26.3	-32.9	-30.5
5th	-31	-59.3	-9.9	-21.7	11.4	25.8	0	0	31	90.6	10.1
6th	16.2	-5.7	7.9	-3.8	-5	-2	0	0	-22.2	6.9	11.2
7th	-8.2	5	1.2	3.4	13.2	2.9	0	0	15.7	2.9	-19.3
8th	-1.1	-20.6	-4.8	-7.8	-10.9	11	0	0	-14.1	29.1	-10
RUN/POINT	Flap Bending, in-lb	Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
41/17	Blade 1, r/R=0.725	Blade 1, r/R=0.800		Blade 1, r/R=0.900		Blade 1, r/R=0.144		Blade 1, r/R=0.570		Blade 1, r/R=0.400	
MEAN	-307.3	-656.3	-751	-4808.4	-2242.8	-493.5					
RMS	463.3	457.9	287.8	2666.1	1089.5	152.2					
1/2 P-P	939.4	936.2	690.4	4090.1	2220.1	263					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	SINE
1st	82	-422.6	103.3	-298.5	-9.9	-74.8	-2528.5	2725.3	-625.6	959.7	135.4
2nd	-330.5	67.6	-393.6	35.8	-257.1	21.9	459.7	289.5	247.9	-77.7	-52.9
3rd	-145.1	271.6	-151.8	261.6	-167.3	163.9	150.5	-27.1	-231.4	-18.7	-13.1
4th	5.9	33.7	58.3	72.9	57.7	63.2	-21.7	52.7	156.9	-845.4	-1.2
5th	-34.7	-169.2	-56.2	-226	2.1	-136.2	95.9	97.6	-213.2	-288.7	16.3
6th	40.3	-12.3	16.4	-17.5	-26.6	-25.1	-7.6	-14.6	8.4	23.7	-10.2
7th	-0.8	0.1	21.3	8	7.5	-0.3	21.2	-14.5	-13.9	14.2	0.3
8th	-17.9	5.8	-27	39.3	-3.5	56.5	-101.4	-134.3	108.2	132.7	0.8

RUN/POINT		Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
		Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.174	Blade 3, r/R=0.325	Blade 3, r/R=0.325	
MEAN	-409.4	-3195.6	-347.7	-3517.5	-687.1	-3517.5	-687.1	-3517.5	-687.1	-3517.5	-687.1	-34.3	
RMS	286.9	2294.2	272.9	2352.6	1987.5	272.9	2352.6	272.9	2352.6	272.9	2352.6	1381.2	
1/2 P-P	534	3595.4	515.1	3787.5	3205.3	515.1	3787.5	515.1	3787.5	515.1	3787.5	2422.2	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	253.7	158.4	-1686.9	-2722.8	-171.4	215.3	2801.5	-1713.9	2390.4	-1411.4	1520.6	-1098.1	
2nd	121.5	124	-313.6	-303.3	-115.7	-142.8	299.8	325.7	243.7	266.3	191.1	82.1	
3rd	-138.3	-128.6	-40.4	-89.3	-117.1	136	-92.4	42.2	-65.8	38.6	60.8	14.4	
4th	24.9	21.2	-4.2	69.1	32.2	19.5	34.5	-27.7	34.7	-89.9	18	-432.4	
5th	66.7	-12.6	-68.4	59.6	17.2	52.4	-68	-77.2	-27.4	-31	104	162.1	
6th	-14.2	3.2	5.9	0.9	17.4	-1.7	1.3	-6.7	0.5	0.8	25.6	-0.1	
7th	0.5	10.3	8.8	28.5	6.8	-4.2	12.6	30.3	7.9	17.3	0.1	-15.6	
8th	8.7	-46	-118.4	-145.3	7.8	-24.8	-119.5	-163.1	-93.4	-150	-55.3	-94.5	
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb		Pitch Link, lb	
		Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 4, r/R=0.400	Blade 1	Blade 1	Blade 1	
MEAN	-1185.7	-478.9	0	0	-4915	0	-4915	0	-553.5	-553.5	-97.2	-97.2	
RMS	1082.3	169.4	0	0	2157.6	0	2157.6	0	156.3	156.3	14.8	14.8	
1/2 P-P	2043.9	277.8	0	0	3387.2	0	3387.2	0	263.6	263.6	27.9	27.9	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	1006.2	-919.4	-134.8	187.9	0	0	1629.3	2537.7	-159.4	-141.5	16.2	11.5	
2nd	160	-2.9	-38.8	41.3	0	0	-263.6	-273.5	45.9	-25.3	4.2	-3.5	
3rd	128.5	23.8	19.1	6.7	0	0	39.2	104.3	12.5	-14.9	0.4	0.7	
4th	-21.1	-573.7	-0.2	13.8	0	0	12.6	-13.2	0.5	14.6	0.1	0.1	
5th	167.2	246.9	3.1	5.7	0	0	56	-56.9	-4.5	1.4	0.1	0	
6th	11.5	8	1.9	-1.6	0	0	15.1	3.9	-3.7	0.3	0.1	0.1	
7th	-13.5	-20.4	-0.4	-0.8	0	0	10.7	6.7	-0.3	0.1	0.1	0	
8th	39.4	53.5	-0.2	2.7	0	0	-93.9	-149.1	-1.6	3.9	0.4	0.1	

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
		Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.370	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570
MEAN	-325.3	155.9	357.9	0	0	444.9	54.2				
RMS	251.2	157.5	119.1	0	0	215.9	378.1				
1/2 P-P	483	290.5	233.2	0	0	448.9	756.6				
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-233.2	-132.5	-115.9	-7	-159	0	0	70.9	-267.3	116.1	-442.1
2nd	-61.2	-151.8	-84.3	-14.8	-8.4	0	0	-28.7	58.9	-151.4	115.2
3rd	94	-116.3	56.5	-66.5	8.6	-20.3	0	0	-47.7	36.7	-136.4
4th	29.4	10.5	18.5	1.2	5	-13.8	0	0	-21.7	-20.3	-25.2
5th	-9	-38.9	-1.2	-14.1	5.2	15	0	0	7.3	58.7	5.8
6th	10.8	-1	5.2	-1.9	-3.3	-3.3	0	0	-17.1	1.9	10
7th	-6.4	4.6	1.1	2.1	11.5	-0.3	0	0	12.6	-1.7	-15.9
8th	-3.5	-29.7	-4.5	-9.5	-6.8	20.1	0	0	-8	45.5	30.4
RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
4/16	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.400	Blade 1, r/R=0.400
MEAN	-316.7	-615.9	-654.8	-5379.2	-5379.2	-2301.5	-485.2				
RMS	417.5	394.9	241.5	2001	2001	879.7	148.9				
1/2 P-P	818	815	599.1	3191.5	3191.5	1887.3	252.5				
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	104.6	-408.9	106.5	-294.7	-6.3	-76.2	-2054.5	1879.1	-545.4	742.6	123.8
2nd	-281.5	104.9	-319.1	70.8	-198.4	31.3	312.8	277.9	190.6	-71.7	-49.1
3rd	-114	225.4	-120.1	229.8	-126.1	153.2	92.4	-28.3	-155.5	-3.5	-15.9
4th	6.1	32.9	42.8	64.3	37	65.9	-27.5	49.7	192.6	-685.1	-4.2
5th	5.7	-112	-0.6	-153.6	34	-95.1	68.5	71.3	-135	-206.5	-2.6
6th	31.4	-7.4	14.1	-12.9	-12.2	-22.2	-12.2	-20.5	10.7	30.3	-8
7th	0.6	-2.5	14	-3	-1.1	-6.8	10.4	10.3	-6.2	-8	0.9
8th	-14.7	13.4	-19.8	66.7	-6.4	80.2	-106	-154.9	114.9	150.7	-1.1

RUN/POINT		Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
		Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	-1081	-3674.5	-1033.8	-4002.3	-1131.6	-4002.3	-1131.6	-4002.3	-1131.6	-220.8
RMS	452	2139.4	466.3	2283.6	1909.9	2283.6	1909.9	2283.6	1909.9	1289.6
1/2 P-P	834.8	3281.8	835.4	3540.2	2937.2	3540.2	2937.2	3540.2	2937.2	2293.1
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	318.4	511.9	-962.5	-2832.7	-559.8	276.7	3050.2	-958.4	2564.1	-762.7
2nd	58.9	138	-189.9	-314.7	-54.8	-148.8	180.5	321	147.4	263
3rd	-88.4	-73.5	-57.5	-61.2	-65.8	85.1	-65.2	62.3	-4.3	52.1
4th	18.5	19.5	-8.7	55.1	25.6	16.9	10.5	-8	24.5	-46.5
5th	54.2	-41.8	-48.4	62.8	47.5	39	-90.4	-38.3	-39.7	-12.1
6th	-16.6	6.5	24	-2.9	12.9	-5	-11.5	-5.1	-10.1	-1.9
7th	1.9	7.3	3.1	-17.1	4	-1.7	2.2	-19.6	1.6	-19.6
8th	0.6	-32.7	-89.5	-94.5	-3.2	-20.6	-101	-112.1	-78.5	-101.9
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Blade 4, r/R=0.400	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Torsion, in-lb	Pitch Link, lb
		Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 4, r/R=0.400	Blade 4, r/R=0.400	Blade 4, r/R=0.400	Blade 4, r/R=0.400	Blade 4, r/R=0.400	Blade 1
MEAN	-1254.4	-459.7	0	0	-5386.5	-530.9	-530.9	-530.9	-530.9	-101.8
RMS	972.8	164.1	0	0	2025.8	147.5	147.5	147.5	147.5	19.3
1/2 P-P	1873.1	269.7	0	0	3130.4	245.2	245.2	245.2	245.2	33.3
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	1094.8	-620.5	-120.5	190.7	0	0	900.4	2690.1	-160.3	-123.1
2nd	120	9.1	-35.4	35.8	0	0	-138.1	-275.8	40.5	-23.7
3rd	95.8	10.1	13.8	4.9	0	0	55.3	81.5	10.2	3.7
4th	72.6	-359.2	1.7	12.9	0	0	-6.2	-11.6	1.7	-11.7
5th	232.8	160.3	4	1.5	0	0	37.7	-62	0	10.9
6th	25.7	0.2	1	-1.1	0	0	5.4	7.5	-2.3	1.9
7th	-10.4	10.7	-1.2	-0.3	0	0	-3.7	-28.2	-0.5	0.6
8th	38.2	38.9	0.7	2	0	0	-81.3	-109.6	-0.3	3.7

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
		Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.570	
MEAN	-986.8	-254.3	189.6	0	0	387.4	8.5				
RMS	216.5	144.7	134.5	0	0	204.5	351.6				
1/2 P-P	400.2	261.9	256.5	0	0	412.5	660.6				
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	138.5	-185	87.4	-147.1	83.4	-162.5	0	90.1	-248.1	142.1	
2nd	-1.2	-165.6	7.8	-92.3	-2.4	-12.4	0	-36.8	57.6	-160.3	
3rd	42.8	-70	27.7	-41.5	6.7	-14.9	0	-23.3	21.5	-82.3	
4th	19.1	8.8	13	2	5.3	-8.4	0	-15.2	-11.7	-25	
5th	-42.2	-33.1	-13.9	-13.2	18.3	13.3	0	49.9	49.9	1.7	
6th	15.1	-9.3	8.7	-4.8	-1.3	0.2	0	-16.9	11.9	6	
7th	-3.6	0.7	2.5	-0.9	10.5	-1.1	0	0	-0.3	-13.4	
8th	2.2	-15.4	-2.2	-5	-7.8	10.5	0	0	8.7	-4	
RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
4/15	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.400	
MEAN	-322.2	-574.6	-561.3	-587.9	-2343.8	-467.8					
RMS	389.8	353.4	204.1	1836	731.4	143.1					
1/2 P-P	732.9	675.8	505.3	2976	1783.5	237.2					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	123.2	-378.6	103.7	-268.6	-10.9	-61.2	-2308.3	1100.3	-607.7	532.7	
2nd	-262.5	110.5	-275.5	76.2	-160	30.8	192	297.6	162.3	-58.8	
3rd	-83.4	192.4	-98.6	204	-102.1	143.4	76.5	-47.2	-101.4	6.5	
4th	-2.8	17.5	19.4	32.4	7.7	39.3	-18.3	36.8	174	-421.8	
5th	-79.8	-93.4	-95.5	-122.5	-39.6	-79.7	90.7	48.2	-195.7	-155.3	
6th	31.4	-18.7	16.9	-17.9	-2	-16.8	-13	12.9	14.5	-19.9	
7th	5.1	-2	18.5	2.1	4.4	5.1	-5.2	-24.2	14.6	26.4	
8th	-11.8	7.8	-26.5	37	-18.1	47.2	-77.8	-108.4	80.3	104.4	

RUN/POINT		Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
		Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	-2354.3	-4660.3	-2322.3	-4973.4	-2014.4	-569.8			
RMS	263	816.2	274.3	988.1	826.5	611.9			
1/2 P-P	475.3	1511.1	487.9	1695.3	1389	1086.6			
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	266.1	124.1	-278.9	-1068.2	-216.2	221.8	1337.1	-210.4	1125.1
2nd	10.3	217	-99.5	-248.8	-7.5	-219.4	117.8	254.8	92.9
3rd	-34.6	10.1	-44.9	-15.3	24	43.7	-19.8	47.8	-10.5
4th	8.8	0.8	-3.5	28.5	11.2	-2.5	2.2	-20.4	2.5
5th	2.5	-18.4	1.6	32.3	20.9	-5	-35.8	1	-13.8
6th	-11.8	8	18.8	-3.4	8.5	-7.4	-0.6	-8.5	1.7
7th	-0.4	3.9	-17.9	-6.7	1.4	-1.8	-11.4	-0.5	-10.5
8th	-2.8	-20.9	-53.1	-25.4	-6.4	-11.3	-64.1	-33.7	-53
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Pitch Link, lb
		Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 4, r/R=0.400	Blade 1
MEAN	-1398.6	-422.1	0	-6302	-484.9	-104.3			
RMS	487.4	167.4	0	644.9	147.6	16.9			
1/2 P-P	943.1	265.6	0	1159.9	235.3	29.6			
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	566.6	-307.2	-106.3	205.3	0	0	181.1	841.8	-173.4
2nd	81.2	-16.2	-21.1	43	0	0	-60.4	-222.3	25.9
3rd	39.7	-26.6	11.6	0.7	0	0	42.1	47.7	0.9
4th	-29.7	-150.6	4.1	9.5	0	0	7.8	9.3	1.4
5th	85.8	1.1	2.4	-1.5	0	0	-3.8	-30	2
6th	16.3	-0.7	0.6	-1.3	0	0	2	3.7	-0.7
7th	1	-0.2	-1.7	1.3	0	0	-13.8	-11.9	0.3
8th	27.3	10.6	1.4	1.6	0	0	-58.3	-32.1	0.9

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
		Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325
MEAN	-2236.8		-1030.6	-128.1	0	280.1	-104.9				
RMS	257.7		160.9	107.7	0	180.6	329				
1/2 P-P	500.2		298.4	207.8	0	334.5	605.2				
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-228	-145.1	-129.7	-123.7	-10.6	-141.8	0	0	78.1	-223.1	175.7
2nd	40.2	-228.6	33.5	-129.2	9.4	-24.5	0	0	-30.2	63.6	-131.9
3rd	-35.6	-29.5	-15.7	-20	4.4	-11.3	0	0	17	4.2	8.6
4th	6	-3.7	6.7	-3.4	5.2	-5.3	0	0	-8.2	-1.6	-15
5th	-13.7	5.9	-2.1	2.5	12.9	-2.4	0	0	22.5	-2.9	6.9
6th	10	-12.5	7.3	-5.4	1.7	2.3	0	0	-9.3	15.8	-2.5
7th	-1.4	0.3	3.3	-1	9.9	-0.5	0	0	6.9	1.1	-12.2
8th	4.1	-15.3	1.4	-2.4	-3.2	15.1	0	0	-10.6	27.3	23.1
RUN/POINT	Flap Bending, in-lb	Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
41/14	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.400	Blade 1, r/R=0.400
MEAN	-343.7		-492.5	-381.4	-6863.7	-2437.5	-427.9				
RMS	343.9		288.5	147.6	526.3	400.3	144.9				
1/2 P-P	622.8		561.6	358	1103.2	1018.5	232.2				
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	166.2	-355.9	128.5	-265.5	14.9	-68.7	-534.1	388.2	-276.9	317.5	95.9
2nd	-172.8	171.6	-158.5	134.3	-81.5	49.4	89.7	251.1	90	-49	-27.3
3rd	-12.9	133.3	-34.2	153.7	-34.6	117.3	34.7	-33.1	-26.7	43.3	-7.8
4th	9.8	20.2	19.3	22.8	0.5	33.6	2.5	44.3	-12.2	-303.1	0.4
5th	-33.7	1.3	-29.7	-9.2	-5.3	-14	32.5	6.3	-71.3	-21.1	-2
6th	29.1	-23.2	27.7	-21.1	22.2	-14.4	3.9	25.8	0.5	-36.8	1.6
7th	8	-3.1	19.8	-1	9.6	6	-18.5	-16.6	19.9	17.3	-2.6
8th	-4	12.5	-14.8	47.5	-14.4	49.3	-53	-34	50	30.9	0.9

RUN/POINT		Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
		Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	-3691.3	-5564.9	-3680.5	-5874	-2819.3	-882.4			
RMS	394.3	706.6	470	934.9	769.8	513.4			
1/2 P-P	719.7	1265.9	834.5	1610.7	1287.7	934.3			
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	130	442.8	519.8	-804.7	-577.6	101.7	1136.1	611.2	922.1
2nd	-90.1	262	55.7	-217.7	96.2	-253.5	-40.9	219.1	-30.4
3rd	48	114.2	-44.4	8	130.3	-41.7	-5.8	56.7	2.1
4th	1	-11	-4.1	9.2	-0.6	-17.8	0	-8.9	4.9
5th	-3.8	-51.9	23.8	47	51.2	-20.1	-64.6	32.9	-27.3
6th	-3.1	14.7	3.1	-15.7	4.1	-11.4	0.6	10.5	0.8
7th	-1	-1.5	14	14.8	-6.6	2.7	16.8	20.2	10
8th	5.3	-30.6	-24.2	-19	0.1	-10.3	-23	-24.7	-17.1
MEAN	-1535.3	-384.2	0	0	-7149.4	-438.4	-103.8		
RMS	384.9	169.3	0	0	696	149.5	16.1		
1/2 P-P	840.7	267.7	0	0	1224.5	242.7	27.5		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	488.4	36	-90.3	216	0	0	-680	649.6	-186.4
2nd	17.3	-6.1	-7.3	46.6	0	0	109.8	-197.8	10.3
3rd	11.5	-34.6	0.4	0.7	0	0	53.1	29.9	-3.1
4th	3.2	-36	11.7	4.7	0	0	15.3	6.5	11
5th	175.6	-78.9	2.4	-4.7	0	0	-31.5	-64.1	5.4
6th	13	-32.1	0.9	-2.4	0	0	8.9	-11.3	-1.4
7th	-12	-10.4	-1.4	1.2	0	0	7.2	22.9	0.1
8th	9.3	7	1.3	1.7	0	0	-20.9	-11.5	0.6

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
41/13	Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.570	
MEAN	-3562.3	-1846.2	-459.1	0	0	172.6	-202.5				
RMS	251.8	148.8	92.3	0	0	171.7	323.3				
1/2 P-P	493.3	283.4	172.8	0	0	324.7	603.8				
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	75.3	-13	57.3	-38.4	64.1	-89.3	0	0	102.4	-178.4	
2nd	149.4	-270	98.2	-152.3	34.8	-32.5	0	0	-28.8	66.7	
3rd	-136.7	45	-72.9	19.7	-2.1	-2.4	0	0	61	-17.5	
4th	-1.3	-16.9	2.6	-9	5.6	-1.6	0	0	-1.6	10.2	
5th	-46	11.2	-14.4	3	25.1	-3.2	0	0	63.7	-8.4	
6th	3.9	-11.6	3.7	-5.4	1.9	2.6	0	0	-3.4	14.2	
7th	4.8	-3	4.8	-3	3.8	-3	0	0	-4.5	-0.1	
8th	-0.6	-23.9	2.8	-5.6	5.1	18.3	0	0	1.2	35.5	
RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
41/13	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.400	
MEAN	-330	-381.6	-176.8	-7779.5	-2542.2	-386.4					
RMS	332.3	265.5	141.9	495.4	254.8	145					
1/2 P-P	663.3	577.1	384.7	915.2	617.6	236					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	216.7	-307.9	147.4	-232.2	25.4	-60.2	-342.4	-529.1	-234.7	64.2	
2nd	-109.6	196.7	-62.6	155.6	-6.7	48.9	-84.3	227.4	31.2	-38.5	
3rd	70.3	69.2	42.8	96.4	38.1	90.2	23.5	-46.5	4.5	48.9	
4th	-5.8	-3.4	-18.6	-17.3	-40.6	1	15.1	19.3	-47.1	-82.8	
5th	-121.7	7	-129.3	5.1	-85.6	-11.2	73.7	-23.9	-162.4	32.8	
6th	11.5	-23.7	9.9	-20.8	19.8	-7.5	0.9	5.8	2.9	-12.1	
7th	10.3	-2.9	7	-4.8	-5.4	6.2	8.4	19.5	-8.5	-16.4	
8th	0.3	12.2	3.6	58.5	-0.4	59.7	-26.7	-15.6	29	16.3	

RUN/POINT		Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	40/33	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.174	Blade 3, r/R=0.325	Blade 3, r/R=0.325	
MEAN		3069.7		-1126.6		3233.7		-1852.9		900.4		348	
RMS		667.2		7374.3		607.1		6998		5924.9		3891.4	
1/2 P-P		1324.6		11017.6		1129.1		10513.2		8956.3		6746.5	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	337.4	441	-6296.3	-8208	-328.6	214.4	7037.8	-6831.8	6042.1	-5696.2	3574.9	-3811.2	
2nd	437	30.8	-998.9	-623.4	-486.8	-57.3	1055.7	568.9	853.9	490.2	579.3	207.6	
3rd	-314.1	-467.8	3.1	-376.2	-442.9	313.8	-295.9	35.5	-190.8	70.3	313.2	235.7	
4th	82.1	53.6	-18.3	196.4	100.8	53.8	75.8	-71.4	129.2	-308.3	290	-1442.2	
5th	224.1	-48.4	-116	116.9	17.1	167.1	-145.6	-130.2	-64.5	-32.2	203.9	416.9	
6th	-35	9.2	-4.7	17.4	36.5	2.8	-25.2	-44.4	-18.4	-14.2	30	86.9	
7th	11	16.5	-4.3	-16.1	13.9	-7	14	2.8	7.3	-3.7	-20.8	-34.7	
8th	0.6	-85.7	-228.3	-268.1	3.2	-61.7	-239.9	-284.2	-192.8	-276.5	-98.1	-159.6	
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Flap Bending, in-lb	Blade 4, r/R=0.144	Chord Bending, in-lb	Blade 4, r/R=0.144	Torsion, in-lb	Pitch Link, lb	Pitch Link, lb	
	40/33	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1	Blade 1		
MEAN		-1097.3		-466.9		0		-3118.5		-574.3		-47.4	
RMS		3053.8		223.6		0		7447.4		207.9		20.9	
1/2 P-P		5624.8		377.9		0		11235.8		352		38.6	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	2217.4	-2884.4	-224.7	182.6	0	0	6481.8	8199.4	-147.5	-233.5	-27.5	3.2	
2nd	492.6	62	4.6	93.2	0	0	-1005.6	-625.2	23.7	-64.6	-4.1	-9.1	
3rd	637.1	308.6	12.6	-41.9	0	0	-62	331.6	-30.5	0.5	-1.3	-0.8	
4th	230.5	-2000.5	41.4	55.9	0	0	25	-7.7	39.6	44.9	0.1	-0.4	
5th	386.8	626.3	-16.7	11.4	0	0	121.4	-58.8	-15.7	-17.8	0	0	
6th	50.7	105.3	4.8	-2.8	0	0	-15	37.8	-3.6	2.5	0	0.1	
7th	-58	-24.4	4.2	-3.1	0	0	13.5	-14.5	-6.7	-4.7	-0.1	0.1	
8th	104	93.3	-4.8	10	0	0	-200	-289.1	-7.3	11.3	-0.1	-0.2	

RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.144	Flap Bending, in-lb Blade 1, r/R=0.167	Flap Bending, in-lb Blade 1, r/R=0.215	Flap Bending, in-lb Blade 1, r/R=0.280	Flap Bending, in-lb Blade 1, r/R=0.325	Flap Bending, in-lb Blade 1, r/R=0.570		
						SINE	COSINE	SINE
MEAN	3160.3	2299.6	1226.2	0	0	745.4	361.4	
RMS	516.7	297.8	181.3	0	0	353.1	586.9	
1/2 P-P	912.7	504.8	419.1	0	0	779.1	1235.2	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-74.7	-197.4	-56.8	-138.9	49.3	-207.1	0	69.3
2nd	-449	-50.9	-261.2	-31.3	-93.9	17.3	0	-7.6
3rd	406	-278.5	231.4	-155.5	16.5	-37.6	0	-205.5
4th	86.2	54.8	48.2	15.8	10.6	-35.7	0	-56.2
5th	20.3	-161.4	10.4	-62.9	-13.6	58.3	0	-43.9
6th	33.2	-3.2	12.8	-4.2	-13.3	-7.9	0	-45.9
7th	-15.8	5	1.4	0.1	25.1	-5	0	-37.5
8th	3.2	-54.1	-10.3	-19.1	-35.2	32.9	0	-38.5
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800	Flap Bending, in-lb Blade 1, r/R=0.900	Flap Bending, in-lb Blade 1, r/R=0.144	Chord Bending, in-lb Blade 1, r/R=0.570	Chord Bending, in-lb Blade 1, r/R=0.570	Torsion, in-lb Blade 1, r/R=0.400	
MEAN	-275.8	-812.7	-1077.6	-3361.2	-2184.4	-461.2		
RMS	714	782	572.5	7285.4	2694.5	212.6		
1/2 P-P	1490.1	1576.7	1262.7	10765.3	5196.1	365.1		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	11.3	-602	80.5	-459.8	-37	-165.6	-7371.6	7072.8
2nd	-479.7	30.3	-671.5	-17.7	-513.8	3.8	1101.8	491.3
3rd	-380.4	327.2	-368.9	295.3	-379.3	147.1	358.5	34.7
4th	27.3	29.1	158.6	102.9	179.7	83	-78.7	133.9
5th	122.5	-382.8	88	-515.5	147	-317.7	85.1	119.6
6th	75.1	1.1	43.1	-4	-56.4	-40	-4.2	-24.5
7th	-10.3	-14.2	21.4	9.3	-8.1	-10.1	1.9	-52.5
8th	-42.4	25.8	-72.4	102.9	-13.4	144.5	-206.9	-292.7

RUN/POINT		Flap Bending, in-lb	Chord Bending, in-lb						
		Blade 2, $r/R=0.144$	Blade 2, $r/R=0.144$	Blade 3, $r/R=0.174$	Blade 3, $r/R=0.325$				
MEAN	1654.7	-2390.9	1747.8	-3006.3	-137.8	3			
RMS	675.6	5413.1	606.1	5323.7	4485.8	2916.4			
1/2 P-P	1413.9	8181.7	1276.9	8205	6926.3	4898.9			
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	293	752.9	-3529	-6727.4	-672.2	196	6504.6	-3664.7	5517
2nd	233.5	81.9	-574.5	-600.6	-243.7	-114.2	569.8	633.8	464.4
3rd	-263.9	-302.3	-51.5	-243.1	-286.5	245.5	-210.2	47.3	-132.8
4th	65.3	47.9	-10.3	74	80.7	43.9	59.9	-62.6	88.8
5th	155.7	-13.5	-119	77.2	-2	130.2	-114.7	-96.6	-193.7
6th	-31.1	8.1	25.2	14.9	30.5	-5	-9.6	5.9	-53.7
7th	11.2	12.4	14.3	-5.7	8.6	-7.2	34.6	-11.3	16.5
8th	-8.2	-65.3	-247.9	-169.9	-5.9	-41.4	-283.2	-195.6	-236.9
RUN/POINT		Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Pitch Link, lb	
40/32	Blade 3, $r/R=0.450$	Blade 3, $r/R=0.400$	Blade 3, $r/R=0.400$	Blade 4, $r/R=0.144$	Blade 4, $r/R=0.144$	Blade 4, $r/R=0.144$	Blade 4, $r/R=0.400$	Blade 1	
MEAN	-1199.8	-491.5	0	-4421	-580.3	-72			
RMS	2200.7	185.9	0	5358.9	177.9	11.9			
1/2 P-P	4104	322.1	0	8201.1	314.9	24.2			
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	2134	-1723.3	-181.2	172.4	0	0	3464.6	6680.5	-147.4
2nd	335.4	48.4	-40	56.7	0	0	-493.4	-605.1	58.4
3rd	423.9	115	12.7	-8.1	0	0	28.7	225.5	-4.1
4th	163.4	-1196.5	11.7	32.4	0	0	7.5	-42.9	15.6
5th	285	503.7	-5.9	11.8	0	0	125.9	-65.6	-13.9
6th	27.9	49.5	4	-0.5	0	0	16.9	-5.5	-4.4
7th	-50	-7.2	1.1	-1.3	0	0	26.8	-22.6	-3.1
8th	114.4	59	-0.6	7.7	0	0	-231.1	-203.8	-2.9

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325	
40/32		1720.8		1402.4		854.1		0		601.7	205.9
MEAN		379.4		221.2		174.2		0		299.5	499.9
RMS		827.1		472		350.8		0		649.3	1032.5
1/2 P-P											
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	278.2	-134	163.9	-111.3	133	-183.7	0	0	96.8	-319.5	93.5
2nd	-197.3	-121.7	-109	-68	-45.7	1.5	0	0	-31.6	66.1	-177.8
3rd	253	-226.5	146.3	-126.5	12	-29.5	0	0	-132.1	82.3	-323.9
4th	65.8	41	37.4	13.6	7.3	-23.4	0	0	-43.1	-49.8	-51.6
5th	11.8	-117.4	7.5	-44.5	-8.5	45.2	0	0	-28.8	161.2	18.9
6th	27.8	-5.2	12.4	-3.6	-9.7	-4.8	0	0	-38	2.1	26.9
7th	-8.9	7.2	3.1	0.1	19	-8.9	0	0	25.4	-11.1	-32.8
8th	-6.3	-36.1	-13.4	-11.4	-24.8	25.3	0	0	-22.2	58.6	56.4
40/32											
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Flap Bending, in-lb Blade 1, r/R=0.900		Chord Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570	
MEAN		-321.5		-755.5		-917.3		-4784.3		-2276.2	-493.5
RMS		609.2		636.9		435.9		5101.5		1768.4	171.7
1/2 P-P		1309		1304.9		957.1		7809.6		3644.6	316.8
1st	69	-503.4	105.2	-366.7	-31.1	-106.8	-6046.1	3826.9	-1259.1	1323.6	173.1
2nd	-437.7	48	-545.6	1.2	-376.2	1.1	582.1	547.7	357	-87.2	-52.1
3rd	-243.9	352.1	-244.3	337.2	-264.7	200.9	241.9	-11.3	-438.5	-101.7	-12.2
4th	3.7	40.2	96	100	102.2	86.7	-39.1	58.8	501.2	-1401.7	16.4
5th	86	-296.9	69.9	-394	121.8	-237.3	91.8	100.4	-177.8	-398.9	13.3
6th	65.8	-13.2	27.1	-19.2	-51	-36.1	-26.3	10.9	21.7	17.4	3.9
7th	-3.4	-6.4	23.3	-4.7	-10.6	-25.3	2.5	-23.4	22.2	27.9	-1.6
8th	-36	17.5	-52	80.1	-9.2	109.8	-245.9	-204.8	261.8	197.3	0

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RUN/POINT		Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
		Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.174	Blade 3, r/R=0.325	Blade 3, r/R=0.325	
MEAN	1022.4	-2933.7	1100.6	-3536.4	-621.1	-186.8							
RMS	400.8	4005.7	365.2	4025.6	3402.9	2285.6							
1/2 P-P	888.6	6240.9	795.6	6434.1	5444	4077.1							
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	216.4	319.6	-2974.4	-4760.5	-271	175.1	4721.7	-3077.1	4025	-2548.4	2465.4	-1844.9	
2nd	169.2	75.1	-483	-409.1	-175.7	-89.9	479.3	455.2	395.3	375	311	138.5	
3rd	-223.5	-245.1	-51.1	-197.2	-232.5	214.7	-181.7	39.8	-120.2	41.2	139.8	68.2	
4th	49.2	43	-8.6	59.2	63	41.3	51	-55.6	74	-178.9	163.4	-787.3	
5th	124.1	-22.7	-99.5	84	20.5	112.1	-123.3	-123.1	-55.5	-44.9	167.4	306.4	
6th	-38.3	2.4	33.2	11.5	34.1	4.7	-25.2	-6.4	-15.9	2.4	33.6	40.3	
7th	8.7	6.9	-11.4	-2.9	3.3	-9.4	11	2.7	7.2	-3.9	-8.7	-19.5	
8th	-13.3	-65.2	-255.6	-160.1	-10.5	-35.8	-282.6	-183.1	-236.2	-183.9	-119.5	-99.4	
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 4, r/R=0.400	Pitch Link, lb	Pitch Link, lb	Pitch Link, lb	
40/31	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 3, r/R=0.400	0	0	0	0	0	-573.1	-573.1	-77.2	
MEAN	-1280	-490.3	0	0	-4938.3	3909.5	6114.4	304.5	172.5	172.5	10.3	10.3	
RMS	1798.6	180.1	0	0	306.3	6114.4	0	0	304.5	304.5	18.7	18.7	
1/2 P-P	3478.9	306.3	0	0	0	0	0	0	0	0	0	0	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	1589.9	-1478.6	-165.8	179.3	0	0	2929.6	4635.6	-154.3	-175.1	5.6	11.2	
2nd	290.2	10.5	-41.7	48.7	0	0	-399.8	-393.9	57.3	-27.4	3.6	-5.5	
3rd	302.1	85.8	16.9	-1.9	0	0	38.8	195.7	5.8	-12.6	0	0.4	
4th	135.3	-1080.1	3.5	24.6	0	0	11.9	-39.5	8.2	20	-0.1	-0.1	
5th	315.4	470.1	-0.7	11.8	0	0	134.5	-61.7	-13.7	-0.5	0.1	0.2	
6th	55.1	40.7	4.3	0.4	0	0	15.4	27.9	-3.6	1.7	0	0.2	
7th	-25.9	-11.5	1.7	-0.2	0	0	0.5	-34.4	-1.5	0	-0.1	0.1	
8th	114.6	61.1	-0.3	5.8	0	0	-238.1	-188.8	-1.4	8.2	0	0	

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
		Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	-987	-5960.2	-928.7	-6371.6	-3143.9	0	0	0	0
RMS	429.7	1454.2	440.4	1671.2	1432.7	0	0	0	0
1/2 P-P	787.3	2683.4	768.1	2971.8	2425.6				
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	102.1	-161.7	319.7	-1919	91.3	71.1	2218	377.2	1919.5
2nd	-74.5	543.9	-34.1	-575.3	93	-583.1	12.1	632.4	22.1
3rd	63.5	41.4	-100.3	-25.6	60	-49.2	-27.2	112.8	-21
4th	24.4	21.4	7	9.8	19.3	10.4	2.3	-0.1	31.3
5th	-4.5	-95.4	-30.7	118.8	98.7	-28	-123.2	-0.9	-51.6
6th	-10.1	14.2	18.7	-10.5	-2.8	-16.3	-10.6	14.9	-9
7th	0.9	-10.2	-41.8	6.7	-3	1.2	-14.3	8.2	-16.9
8th	26.8	-97.8	-77.3	-156.9	26.2	-58.8	-72.7	-173	-52.4
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400		Flap Bending, in-lb Blade 4, r/R=0.144		Chord Bending, in-lb Blade 4, r/R=0.144		Torsion, in-lb Blade 4, r/R=0.400	
28/33	1877	-425.9	-800.2	-7803	-493.2	-46	-46	221.1	25.9
MEAN	910.6	245.5	494.9	1414.7				350.3	45.1
RMS	1857.8	373.7	938.8	2488.9					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	1147.5	-270.9	-167.1	285.3	45.2	318.6	-532.2	1812.8	-247.1
2nd	156.3	-38	-55.2	74.9	-133.9	573.7	62.4	-555.3	60.8
3rd	-9.2	-36.8	-31.2	17.3	-78.4	-95.5	121.3	59	10.2
4th	195.7	-131	-14.4	23.8	15.7	13.3	-13.6	-131.7	18.7
5th	354.7	75.1	9.2	0.3	40	91.3	27.8	-131.7	-11.9
6th	10.7	-44.2	6.3	-9.4	4	17.1	5.6	-0.9	23.4
7th	-2.1	-31	-8	0.6	4.3	5.8	-0.9	-21	-3.4
8th	33.8	80.8	0.1	6.1	5.8	-94.8	-55.4	-159.2	-4.3
								-1.9	-1.9
								11.4	0.7

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RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
28/34	Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.375	Blade 1, r/R=0.400	Blade 1, r/R=0.444	Blade 1, r/R=0.570	Blade 1, r/R=0.570	
MEAN	-157.7	208.3	330.2	355.4	331.6	-171.8					
RMS	634.9	371.9	189.5	324.7	373.3	645.2					
1/2 P-P	1228.8	698.5	403	659.6	722.4	1193.2					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-733.2	-15.7	-434.4	-77.4	-82.2	-201.2	118.9	-350.8	172.5	-403.4	
2nd	-8.7	-491.1	2.8	-275.5	-18.8	-38.7	-36.3	120.8	-43.7	405.2	
3rd	-44.9	-8.3	-20.5	-13.1	4.1	-20.7	24.7	-28	31.2	-226.8	
4th	23.9	10.5	19.7	6.3	10.2	0.7	1.3	-10.4	-4.3	337.4	
5th	-85.4	-4.1	-28.8	-0.2	41.3	8.9	107.5	10.5	127.9	130.1	
6th	3.9	-21.5	3.8	-8.3	1.1	7.4	1.1	17.1	1.6	-44.2	
7th	-1.4	2.1	3.4	2.6	10.3	1.9	15.5	0.9	19.4	4.4	
8th	30.7	-86	-5.4	-13.5	-64.6	82.4	-100.6	152.1	1.5	-24.2	
								-84.3	152.8	7.1	
									160.5	-139.6	
RUN/POINT	Flap Bending, in-lb	Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb			
28/34	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.400	Blade 1, r/R=0.400		
MEAN	-555.7	-774.8	-702.3	-8600	-2686	-448.3					
RMS	622.3	543.9	425.4	1621.5	945.2	229.8					
1/2 P-P	1129.6	1203.8	1229.5	2779	2120.6	368.7					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	391.5	-604.3	222.3	-441.1	-59.1	-118.3	-2052.3	749.3	-952.8	565.8	
2nd	-226.9	289.8	-211.5	222.7	-151.9	92	271.6	513.7	278.9	175.2	
3rd	-48.9	226.4	-87	257.1	-77.2	200.8	88.4	-109.8	-5.2	-251.2	
4th	-13.1	83.5	-40.7	141	-76.2	155.8	-40.3	-2.3	331.1	65.7	
5th	-177.8	-41.8	-190.3	-9.2	-139.8	40	140.4	37	-300.1	38.4	
6th	45.8	-67.9	74.6	-79.2	72.9	-37.2	15.9	8.9	-192.6	2.6	
7th	23.6	-31	6.4	-38.2	-14	-26.1	-40.3	-19.1	-40.5	26.5	
8th	-37.6	20.2	-172.8	241	-224.1	287.1	-84.3	35.3	11.8	-4.1	
									10.2	-12.8	
									7.6	-0.4	
									98.8	9.2	

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
28/34	-190.1	-6109.9	-118.9	-6492	-3214.6	-1519.7
MEAN	425.7	2004.6	428.6	2225.5	1919.4	1472.1
RMS	803.7	3426.3	799.1	3779.4	3207.4	2732.3
1/2 P-P						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	190.6	-242.2	-595.5	-2667.8	210.6	148.9
2nd	45.5	478.7	-273.1	-598.5	-520.4	294.2
3rd	-28.3	-1.3	-106.5	-67.2	13.2	32.5
4th	40.6	20.6	6.7	20.3	30.4	4.4
5th	-6.4	-100.2	-24.3	133.4	90.2	-32.2
6th	-12.2	21.2	7.2	-6	-1.7	-19.1
7th	-2.4	-2.2	-34.4	31.1	2.7	3.4
8th	40.9	-111	-107.6	-221.7	42.5	-79.5
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
28/34	-1955.9	-438.1	-19.6	-7968.9	-512.3	-40.3
MEAN	1221	253.7	476.8	1939	229.8	26.9
RMS	2709.2	392.7	937.3	3334.4	377.5	47.7
1/2 P-P						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	1438.9	-661.4	-187.4	285.6	-57	403.2
2nd	286.9	-48.9	-56.2	75.8	-4.4	504.2
3rd	62.7	-30.1	-38.3	8	6	-49.4
4th	179	-286.5	-9.5	29.5	33.5	9.2
5th	389.3	88.8	5.6	0.3	34.9	96.2
6th	-0.3	-38.2	7.3	-9.5	0.1	18.6
7th	-8.6	-50.4	-8.2	-0.5	2.2	-1
8th	43.4	115.8	-1.4	8.4	10.2	-114.8

RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.144	Flap Bending, in-lb Blade 1, r/R=0.167				Flap Bending, in-lb Blade 1, r/R=0.215				Flap Bending, in-lb Blade 1, r/R=0.280				Flap Bending, in-lb Blade 1, r/R=0.325				
		SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	
MEAN	1096.8	987.4	653.8	501.5	452.6	-33.1												
RMS	687.2	402.6	176	316.8	374.2	695.4												
1/2 P-P	1365.4	750.3	399.1	693	775.4	1316.2												
HARMONIC																		
1st	-812.7	150.4	-489.3	32.2	-90.6	-170.3	121.8	-352.5	178	-415.3	422.7							
2nd	-146.8	-412.4	-83.2	-230.8	-58.1	-23.3	-55.8	119.8	-61.2	164.7	-297	286.7						
3rd	108.8	-154.5	66.8	-91	10.2	-29.3	-26.6	9.7	-42.2	34.7	-155.2	240.5						
4th	55.4	9.9	36.1	2	7.6	-13.4	-18.7	-28.9	-29	-29.8	-68.7	-6.4						
5th	-60.3	-67.4	-22.5	-23.9	20	31.3	60.3	73.9	75.8	88.6	-37.5	4.7						
6th	26.1	-17.2	13.1	-5.4	-4.2	7.1	-17.6	13.6	-20.1	14.9	-20.5	14.3						
7th	-5.2	3.5	0.1	4.4	6.8	4.9	14.4	4.3	14.8	6.5	-20.1	0.5						
8th	34.4	-59.2	-5.7	-12.6	-71.2	49.8	-112.7	96.4	-97.3	100.5	164	-73.1						
RUN/POINT																		
28/35	Flap Bending, in-lb Blade 1, r/R=0.725																	
MEAN	-526.3	-843.7	-80.8	-8116.3	-2716.4													
RMS	745.9	681	517.6	3252.9	1752.2													
1/2 P-P	1436.5	1501.9	1597.7	5379	3904.3	430.6												
HARMONIC																		
1st	434	-667.2	240.7	-515	-95	-170.4	-3586.2	2702.2	-1360	1128.8	227.3	-248.9						
2nd	-406.9	231	-415.6	188.1	-305.8	96.2	595	500.9	495.6	-113.5	-66.2	78.6						
3rd	-209.8	344.2	-261.5	357.5	-217	266.4	203.9	-114.6	-304.6	-29.8	48.7	17.8						
4th	16.9	151.3	7.4	225.5	-57.2	212.9	-67.1	11.3	633.2	-129.3	-16.1	29.5						
5th	-75.4	-182.2	-62.1	-157.9	-34.5	-46.5	106.9	130.4	-201.6	-494.8	13.8	-13.9						
6th	81.9	-60.7	104.6	-94.4	90.7	-46.5	-21.1	-5.7	9.4	-15.3	13.3	-9						
7th	22.1	-23.7	-12.2	-38.2	-47.6	-32.6	6.4	-20.5	2.6	9.3	0.6	5.7						
8th	-45.5	-4	-205.2	181.9	-252.4	234.5	-28.5	-311.6	57.3	270.9	-2	9.9						

RUN/POINT		Flap Bending, in-lb Blade 2, r/R=0.144		Chord Bending, in-lb Blade 2, r/R=0.144		Flap Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.174		Chord Bending, in-lb Blade 3, r/R=0.325	
28/35		1073.5	-5623.4	1176.6	-6041	3728.9	3215.1	-2773.6	3352.4	-1439.5	2439	4756.4	
MEAN		413.7	3524.5	447.1									
RMS		925.3	5762.9	985.5									
1/2 P-P													
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	32.1	-249.4	-2249.5	-4330.7	311.9	-47.1	4538.1	-2477.1	3949.9	-2071.3	2723	-1686.8	
2nd	155.4	397.3	-567.3	-598.3	-168.8	-427.6	593.2	626.4	516.7	488.9	516.6	99.8	
3rd	-180	-156.8	-173.9	-196.8	-130.8	192.6	-187.9	167.5	-120.8	134.6	165	84.9	
4th	74.9	23.7	5	116.2	72.6	10.6	44.9	-67.1	89.7	-225.6	249.1	-974	
5th	46.8	-68.8	-100.8	78.1	66	28.8	-103.3	-78	-35.3	-7.7	206.1	289.1	
6th	-28.7	9.6	30.6	23.9	17.9	-8.4	-36.5	-21.8	-33	-14.2	-40.9	23	
7th	1.5	-2.7	1.3	44.5	7.5	0.5	45.1	31	32.6	9.3	-10.9	-78.3	
8th	60.2	-82.8	-80	-297.1	63.8	-63	-56.1	-330.7	-25	-289	24.3	-127.2	
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400		Flap Bending, in-lb Blade 4, r/R=0.144		Chord Bending, in-lb Blade 4, r/R=0.144		Torsion, in-lb Blade 4, r/R=0.400		Pitch Link, lb Blade 1			
28/35		2003.5	-459.5	1254.8		-7571		-547.9		-39.6			
MEAN		2095.5	279.7	466.5		3468.8		254.8		22.8			
RMS		4655.1	443.8	1000.4		5778.3		433		46.8			
1/2 P-P													
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	1986.8	-1450.4	-240.2	282.8	100.9	405.2	2197.8	4277.2	-238.5	-236	23	-10	
2nd	502.2	-96	-58.5	96.1	93.3	418.2	-498.4	-579.8	83.2	-71.4	-11.8	11.4	
3rd	295.2	78.3	-53.2	-15	160.9	103.4	169	208.9	-10.7	44.6	8.9	1.4	
4th	231.9	-1341.2	-17.5	40.2	78.6	11.6	25.7	6.4	-20.8	36.6	-3.6	2.2	
5th	326.2	434.3	-15.2	5.1	-7.5	74	88.2	-102	-3.8	-15.3	-2	0.3	
6th	-5.7	27.1	10.1	5.4	-19.3	13	12.8	39	-11.5	6.4	1.1	-0.3	
7th	-45.7	-91.1	-4	-7.4	-1.6	-7	40.9	-28.2	-4.3	2.4	0.5	0.7	
8th	42.9	133.4	-4.6	13.9	35.9	-94.6	-15.4	-305.4	-8.1	16.6	-2.3	0	

RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.144	Flap Bending, in-lb Blade 1, r/R=0.167				Flap Bending, in-lb Blade 1, r/R=0.215				Flap Bending, in-lb Blade 1, r/R=0.280				Flap Bending, in-lb Blade 1, r/R=0.325				Flap Bending, in-lb Blade 1, r/R=0.570							
		MEAN		RMS		1/2 P-P		MEAN		RMS		1/2 P-P		MEAN		RMS		1/2 P-P		MEAN		RMS		1/2 P-P	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-946	301.1	-573.7	127.6	-123.5	-134.8	109	-343	165.5	-413	407.2	-733													
2nd	-158.2	-378.1	-93.1	-211.3	-65.1	-16	-65.7	121.1	-73.5	165.9	-331.1	281.8													
3rd	150.3	-243.4	91.1	-138.5	11.8	-36.1	-39.7	33.2	-58	69.9	-193.8	322.5													
4th	43.7	32.4	28.5	10.9	3.9	-22.6	-16	-49.3	-22.6	-51.3	-58.3	-9.1													
5th	-71.8	-29.3	-26.8	-8.1	26.8	20.9	78.7	38.5	96	44.6	-36.6	4.7													
6th	35.3	-9.2	16	-2.9	-8.8	2.9	-26.8	4.4	-31.4	5	-13.3	18.9													
7th	-1.2	-0.2	1.7	3.9	7.1	9.5	12.7	13.2	12.2	15.1	8.7	-11.7													
8th	47	-63.1	-0.4	-15.5	-74.7	46	-123.2	93.9	-110.9	99.7	186.3	-68.5													
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800				Flap Bending, in-lb Blade 1, r/R=0.900				Chord Bending, in-lb Blade 1, r/R=0.144				Chord Bending, in-lb Blade 1, r/R=0.570				Torsion, in-lb Blade 1, r/R=0.400							
28/36		MEAN		RMS		1/2 P-P		MEAN		RMS		1/2 P-P		MEAN		RMS		1/2 P-P		MEAN		RMS		1/2 P-P	
		HARMONIC		COSINE		SINE		COSINE		SINE		COSINE		SINE		COSINE		SINE		COSINE		SINE		COSINE	
		1st		424.4		-693.7		230.4		-543.4		-101.3		-195.7		-3837.7		3577.1		-1400		1411.3		250.2	
		2nd		-466.3		233.8		-470.5		201.2		-336.8		110.5		652.8		429.9		590		-172.2		-33.3	
		3rd		-241.2		440.2		-294.2		448.1		-237.5		326.4		250.1		-149.8		-501.8		-15.6		41.4	
		4th		32.8		211.2		37.7		304.3		-21.7		272.2		-60.2		28.3		268.5		-1870		-47.3	
		5th		-107.2		-110.7		-85.6		-71		-32.8		5.9		125		90.3		-281.7		-413.3		-6.4	
		6th		91.2		-49.9		99.7		-95.2		80.4		-58.9		-10		-15.9		2		0.8		4.8	
		7th		21.4		-23.2		-24.7		-29.6		-68		-31.2		-33.8		-15.9		14.8		2.4		5.5	
		8th		-53.9		-7.3		-240.4		191.3		-299.1		245.3		-47.5		-316.9		64.6		287.9		-0.9	

RUN/POINT		Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
		Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.174	Blade 3, r/R=0.325	
MEAN	1574.9	-5326.7	1679.1	-5706	-2470					0	
RMS	474.9	4071.6	551.9	4182.3	3615.7					0	
1/2 P-P	1081.3	6465.4	1230.4	6592.7	5700.3					0	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-97.2	-320.8	-3003.3	-4800.2	438.9	-214.8	4805	-3277.2	4199.2	-2765	
2nd	151.7	386.5	-593.9	-581.7	-186.2	-419.1	627	627.2	549.1	485.8	
3rd	-275.7	-209.7	-170.9	-248.4	-178.9	298.9	-229.1	187.7	-139.5	157.7	
4th	58.1	34.8	97.3	178.1	51.7	16.9	62.9	-125.8	46.6	-321.8	
5th	23.2	-88.1	-63.2	103.2	83.3	11.9	-133.4	-54.1	-39.8	3.5	
6th	-35.4	5.1	10.1	6.6	32.4	-4.1	-10.7	-11.8	-13.1	-6	
7th	-3.7	-5.1	-45.3	42	2.5	5.5	-3.1	56.8	-7.4	22.8	
8th	64.3	-73.8	-80.2	-317.8	72.3	-51.3	-52.2	-337	-18.6	-296.3	
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Pitch Link, lb	
28/36	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1	Blade 1	
MEAN	-2004	-469.8	1723.4	-7252.1	-564.4	-36.6					
RMS	2399.9	280.6	542.2	4012.7	257.8	21					
1/2 P-P	4866.6	432.6	1165.8	6373.4	414.8	43					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	2061.4	-1813.8	-264	265.7	217.3	476.5	2983.8	4721.7	-223.8	-256.6	
2nd	587.5	-144.8	-38.4	97.9	109.2	412.8	-561.9	-589.9	71.6	-76.8	
3rd	454.7	56.1	-50.7	14.5	267.5	142.5	165.3	255.3	8.4	51.2	
4th	-247.1	-1689.7	-38.6	23	59.1	10.8	89.6	-31.1	-36	27.4	
5th	450.6	377.2	-0.3	8.7	17.6	92.7	70.5	-127.4	-8.8	-6.2	
6th	-16.6	24.1	6.1	2.4	-28.2	4.6	13.4	33.7	-2.6	3	
7th	1.8	-114.7	-5.7	-10.4	1.3	-2.8	-3.9	-3.3	-7.4	1.4	
8th	52.7	129.6	-5.8	12.4	43.4	-82.2	-22.2	-309.3	-7.6	15.4	

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570
MEAN	-488.7	19.4	-687.9	387.3	379.3	-38.1		
RMS	756.6	436.8	222.6	265.9	323.4	632.4		
1/2 P-P	1472.6	881.1	424.8	503.7	568.5	1086.5		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-841.6	268.5	-504	97.7	69.7	-263.5	90.5	-314.1
2nd	-89.6	-562.6	-36.9	-319.6	4.2	107.7	-7	131.4
3rd	-29.4	-63.6	-11.6	-40.4	16.9	-6.6	18.6	-9.2
4th	10.1	1.1	11.1	-0.4	0.7	-8.2	0.5	28
5th	46.3	44.5	23.9	17.5	-19.3	-54.2	-21.7	-8.8
6th	8.4	-5.4	6.2	-1	-0.2	5.4	-0.7	-7.1
7th	13.2	-13.4	8.8	-4.6	-8.5	10	-10.8	-15.7
8th	2.5	-26.6	-3.9	-5.4	-23.7	39.6	-25.6	13.9
						45.8	-18.6	13.5
						45.7	41.2	-5
							-39	
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
22/16	Blade 1, r/R=0.725		Blade 1, r/R=0.800		Blade 1, r/R=0.900		Blade 1, r/R=0.570	
MEAN	-450.5	-682.9	-647.7	-6289.4	-2530.9	-478.5		
RMS	643.9	521.8	306.3	1096.4	876	243.5		
1/2 P-P	1163.9	1059.1	885.5	2176	2245.7	397.3		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	373.6	-669.3	223.8	-512.1	-31.4	-161.8	-1031.5	836.4
2nd	-222.4	302.4	-186.2	218.7	-109.4	62.8	302	489.1
3rd	21.8	246.6	9.2	264.5	27.4	181.6	37	-101.9
4th	-19.1	85.8	-42.8	131.6	-65.2	136.9	6	30.9
5th	95.6	86.7	148	97.7	112.7	69.4	-15.2	16.8
6th	20.2	-29.8	52.2	-58.5	75.2	-54.6	11	-27
7th	13.7	-17.8	-20	-3.9	-31.5	2.2	37.5	29.5
8th	-4.3	-2.1	-36.2	71.2	-66.1	95.4	-147.6	11
						-70.7	143.7	26.5
							45.8	11
								2.1
								-0.9
								-1.5
								0.9

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
22/16	-546.6	-3873.7	-508	-4445.8	-1517.1	-596.6
MEAN	485	1593.1	509	1782.7	1532.3	1210
RMS	1019.1	2900.7	1023.2	3472.2	2944.4	2415.1
HARMONIC	COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE
1st	-37.7	-339.3 -830.9	-1923.4 257.1	-108.3 2220.4	-728 1932.9	-617.9 1408.1
2nd	159.9	531.4 -341.3	-563.7 -162.2	-605.2 359.7	686.8 292.9	529.8 242.3
3rd	-89.8	-19.4 -66.1	-4.4 -7.7	90.1 -5.8	98.1 -0.5	66.1 24.8
4th	14.2	14.7 49.4	21.9 17	-9.1 42.9	-28.7 29	-84.9 -35.5
5th	-12.1	42.8 -0.5	-29.8 -46.1	-55 28.2	20.1 13.6	7.9 7.9
6th	-14.2	10.2 -2.9	15.4 4.7	-5.5 7	-12.7 1.7	-12.3 -20.9
7th	-9.6	-13.4 40.4	-9.3 -14.9	17.5 40.7	-2.5 27.5	-8.2 -19.4
8th	9.4	-40.3 -155.3	-51.8 16.4	-28 -157.1	-64 -135.6	-69.7 -53
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
22/16	-1549.1	-471.4	0	-5719.9	-538.9	-87.8
MEAN	1055.3	269.8	0	1362.4	247.1	28.5
RMS	2247.1	434.5	0	2728.7	403	53.6
HARMONIC	COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE
1st	1066.8	-776.1 -199.1	295.4 0	0 590.7	1641.3 -256.1	-203.9 24.5
2nd	206.4	-19.7 -48	123 0	0 -260.5	-579.7 64.6	-96.7 -15.4
3rd	41.1	-94.2 15.6	19.1 0	0 91	35.9 20.3	-19.1 -1.6
4th	-106.7	-524.2 3.3	15.5 0	0 -10.3	8.1 -3.4	13.3 -0.9
5th	-52.1	-52.8 -7.3	2.1 0	0 -35.8	40 -1.5	-9.5 -0.3
6th	-18.8	17.3 2	2.6 0	0 -15.7	21.7 -4.2	-1.4 0
7th	-16	-6.4 1.1	-0.2 0	0 34.6	-2.6 -0.4	-1.3 -0.1
8th	66	25.4 -2.2	2.6 0	0 0	-72.8 -.3	4.4 0

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
34/23													
MEAN	-3699.7		-1957.7		-535		97.9		98.7		-301.3		
RMS	739.9		424.4		143.1		237.9		308.2		585.8		
1/2 P-P	1438.2		790.7		293		471.7		601.5		1080.9		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-674.7	66.5	-392.7	-21.2	-92.1	-135.5	87.6	-242.5	146	-292.7	385	-523.1	
2nd	96.3	-702.6	77.7	-402.1	38	-82.1	24.5	114.6	17.5	183.6	-68.3	422.6	
3rd	-245.3	210.1	-137.1	109.5	-9.3	7.4	86.6	-64	126	-86.8	264.2	-67.9	
4th	-82.4	-49.5	-39	-26.1	5.7	8.1	40.2	31.7	51.6	40.2	18.7	47.4	
5th	-9.4	82.4	2.1	31.8	22.8	-30.3	37.6	-91.2	37.1	-109.2	-34.2	8.8	
6th	-10	-11.1	-0.7	-3.8	12.1	5.4	20.4	10.8	21.8	10.8	-21.1	-3.1	
7th	6.2	-13	4.1	-3.7	-0.4	8.2	-5.8	15.8	-7.8	17.6	0.1	-9	
8th	-19	-33.8	-1.3	-6.1	17.7	32.5	29.8	62.2	27.7	60.3	-15.5	-82.9	
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725		Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Chord Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400		
34/23													
MEAN	-390.2		-397.9		-151.1		-79.9		-2518.5		-394.1		
RMS	550.4		449.5		266.9		838.1		361		234.6		
1/2 P-P	1134		974.7		700.2		1539.1		880.1		362.6		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	291.3	-509.7	175.3	-369.5	28.4	-91.5	540.6	-899.2	-196	53.3	108.3	-295.2	
2nd	54.1	384.5	89.2	264.6	67.7	62.6	-59.1	469.3	38.4	-114.3	8.9	99.6	
3rd	211.3	64.9	217	140.7	188	121.3	-5.8	-96	80.6	80.9	19.5	-12.5	
4th	-91.5	-43.2	-17.1	-28.8	-145.2	33.2	51.6	46.3	-219.2	-178.3	7.9	19	
5th	-60.3	193.6	-55.1	196.9	-73.6	126.4	7.4	-125.8	-56.3	247.4	-0.8	3.8	
6th	-16.4	-38.5	18.5	-30.2	41.3	-38.7	25.6	34.5	-30.6	-55.9	1.5	-3.7	
7th	24.6	-24.2	9	-3.1	17.7	28	8.7	-20.7	-9.2	12.4	4.1	-0.3	
8th	19	22.8	55.3	85.5	27.9	107.4	-57.5	-8.8	57.2	3.6	2.3	3.9	

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144		Flap Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.174		Chord Bending, in-lb Blade 3, r/R=0.325	
		Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144
MEAN	-3850.7	-5535	-3827.1	-6071.2	-3030	-1121.4					
RMS	573.4	666.4	585.9	840.8	695.5	422.5					
1/2 P-P	1019.5	1441.9	1129	1532	1223	946.6					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	143.2	-180.7	757.1	-36.5	-21	77.2	363.7	936.3	310.2	375.3	316.5
2nd	-46	696.4	24.9	-488.8	68.6	-734.9	-47.4	563.4	-35.8	420.3	8.7
3rd	224.1	204.7	-91.6	51.7	237.5	-218.7	36.8	118.3	31	74.6	-18.4
4th	-67.5	-45.9	83.3	61.2	-70.9	-62.4	28.2	5.3	-3.7	-7.8	-147.1
5th	-75.6	-14.8	94.4	9	7.2	-103.4	21.9	134.2	16.2	71.1	50.3
6th	3	2.6	2.4	-16.6	-16.9	-0.7	4.1	4.7	4.8	-0.4	-9.3
7th	-11	-12.3	7.7	-21.5	-5.3	12.2	4	-31.1	1.4	-28.1	-12.6
8th	-31.4	-37.5	-60.8	-14.8	-21.8	-15.8	-74.1	-19.2	-56.1	-19.7	-36.6
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Pitch Link, lb Blade 1
34/23	-1615.1	-395.5	-3587.5	-7184.4	-441.7	-70.6					
MEAN	419.4	270.1	663	826.9	241.4	29.7					
RMS	995.8	406.5	1289.4	1479.4	372.8	49.1					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	371.1	94.8	-120.7	340.7	60.7	410.6	-1004	-177	-301.1	-121.5	10.2
2nd	30.9	0.7	15.1	113.7	-103.3	724.8	101.3	-491.4	-11.3	-99.7	8.8
3rd	-51.1	-80.1	-15.7	28	-248.9	-275.9	114.7	-1.3	12.7	10.3	-1.2
4th	-207.9	-102.3	14.7	26.1	-81.4	-55.2	31.3	2.2	18.7	17.5	4.2
5th	43.3	-321.6	1.2	0.6	104.2	-14.4	-124.8	-5.5	0.5	-1.1	0.2
6th	2.7	-19.6	2.2	-3	16.1	9.7	-20.3	4.7	-0.9	3.8	-0.3
7th	-8.2	25.3	-4.6	-0.3	11.1	6.8	7.9	-31.7	0.9	4.8	-0.4
8th	33.9	14.3	3.5	4.7	-42.9	-20.7	-59.5	-12.2	5	5.3	-0.5

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
34/24													
MEAN	-2242.1		-1051.9		-162.4		253		212.9		-229		
RMS	686.1		398.7		163.2		256		323.5		598.8		
1/2 P-P	1487.4		830.8		348.4		471.9		570.8		1052.4		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-636	-50.6	-370.7	-98.6	-75.7	-191.7	94.6	-297.2	151.6	-353.2	388.1	-604.	
2nd	-168.7	-653.5	-81.4	-374.9	-21.3	-69.4	14.9	119	19.6	184	-69.8	394.	
3rd	-173.6	141.2	-96.5	71.1	-6.4	-2.7	62.9	-56.4	91.4	-73	184	-27.	
4th	-44.8	-28.6	-18.5	-14.2	7.3	4.3	23.6	16	27.9	21.2	-6.4	36.	
5th	25.6	43	15	15.5	6	-21.2	-7.5	-60.1	-16.7	-71.1	-34.1	19.	
6th	-16.8	-14	-4	-5.5	11.4	6.3	20.4	13.5	23.3	13.4	-23.4	-2.	
7th	-1.2	-17.1	0	-4.9	-1	11.8	-4.6	22.1	-6.2	23.2	-0.2	-15.1	
8th	-16.4	-21.9	-2.9	-1.4	10.8	26.1	17.6	46.5	17.4	43.4	-13.1	-54..	
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725		Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Chord Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400		
34/24													
MEAN	-467.7		-559.6		-389.5		-7177.3		-2435.8		-450		
RMS	556.9		430.1		232.8		558.3		463.2		238.7		
1/2 P-P	992.6		827		581.7		1354.4		1073.3		376.3		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	340.4	-573	201.4	-419.1	-3.1	-105	-241.6	-279.2	-435.6	273.6	145.3	-285.7	
2nd	-51.6	340.6	-44.5	237.6	-49.4	58.3	260.3	544.4	111.7	-101.9	-8.8	103.9	
3rd	148.4	95.5	149.2	149.7	133.9	116.5	-10.4	-106.2	100.8	59.4	3.5	-3.2	
4th	-63.5	24.3	-117.9	60.5	-114.2	99.9	30.9	28.9	11.1	-130.2	10.5	3.4	
5th	44.2	104.5	67.2	100.1	20	68.6	-41.9	-70.4	87.7	141.9	0	0.3	
6th	-8.6	-44.3	37.7	-53.5	68.7	-57.9	39.1	14	-39.6	-28.4	1.5	-3.2	
7th	17.3	-24.3	3.9	3.8	10.3	29.1	-7	-13.7	12.5	12.5	1.8	-0.4	
8th	18	10.3	35.5	64.9	5.4	92.1	-82.7	-25.2	88.5	11.2	0.6		

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
34/24	-2372.3	-4871.3	-2321.3	-5394.3	-2382	-865
MEAN	549.4	859.8	549.7	1091.3	917.5	688
RMS	1074.1	1881.6	1037.1	2123.8	1789.3	1421.2
1/2 P-P						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	282.6	-123.1	193	-962.5	-13.2	210.6
2nd	225.2	625.7	-285.7	-562	-201	-665.2
3rd	158.4	116	-106.2	49.5	153.6	-142.3
4th	-17.5	-22	42	25.4	-23	-33.1
5th	-43.9	26.3	45.4	-48.1	-30.2	-73.9
6th	6.9	9.7	-8.9	-8.6	-13.1	-5.1
7th	-19.2	-8.6	-27.9	-9.1	-1.1	18.4
8th	-17.3	-35.9	-94.4	-14.9	-4.4	-17.5
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
34/24	-1539.2	-446.2	-2111.2	-6625.2	-506.5	-70.1
MEAN	602.6	271.5	601.6	759	243.5	32.7
RMS	1409.7	419.9	1234.7	1573.5	388	58
1/2 P-P						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	733.8	-198.9	-157.3	329.1	-80.3	367.2
2nd	117.3	2.8	-1.6	116.9	157.9	678
3rd	-68.6	-67.7	-0.2	16.4	-177.8	-185.1
4th	0.7	-102.8	16.7	9.5	-34.9	-25.5
5th	-115.1	-205.5	2	0.6	68.4	-41.5
6th	-12.9	-28	3.9	-1.6	20.2	7.1
7th	13.3	7.1	-1.5	-0.6	16.3	4.5
8th	42.7	7.2	1.4	2.8	-26.2	-30

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
MEAN	-1021.2	-295.9	150.9	392.2	326.9	-91.1							
RMS	550	324	166.7	268	329.6	588.9							
1/2 P-P	1065.7	607.9	318.6	462.7	545.4	1036.1							
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-501.7	-92.6	-293.4	-123.9	-38.5	-213.2	104.8	-320.8	157.9	-377.7	370.4	-615.4	
2nd	-104.4	-549.1	-44.9	-311.3	-17.7	-48.1	-3.3	116	-8.2	173.4	-165.1	329.7	
3rd	-135.8	-10.6	-72	-11.8	-5	-11.2	50.5	-13.8	75.9	-8	124	142.9	
4th	-17.2	-24.6	-4.5	-13.3	4.7	1.5	6.9	8.9	8.5	13.5	-19.5	21.2	
5th	7.2	55.3	8.5	21.6	15.3	-19.9	17	-64.4	13.1	-80.2	-39.8	16.7	
6th	2.4	-8.7	3.4	-3.2	3.6	4.1	-0.1	7.8	0.2	7	-6.9	1.4	
7th	5.9	-9.2	5	-3.7	1.8	3.7	-4.8	5.1	-8.1	4.6	-0.3	3.4	
8th	-7.7	-31.5	-4.6	-4.6	-3.4	32.5	-4.2	60.1	-1.1	56.7	17.1	-62.3	
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Chord Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400			
MEAN	-460.5	-654.4	-575	-6717.5	-2424.7	-483.1							
RMS	572.4	467.2	283.1	1220.3	750.1	236.1							
1/2 P-P	929.9	825.6	683.5	2598.1	1911	375.3							
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	357.8	-555.8	210.2	-409.5	-28.1	-111.7	-1443.4	595.1	-719.9	514.5	170.3	-263.5	
2nd	-188.1	262.4	-153.5	185.9	-93.3	49.6	337.7	540	211.4	-86	-48.3	101	
3rd	93.5	283.4	76.8	323.7	71.7	242.7	40.2	-147.8	9.1	103.9	-4.3	-8	
4th	-41.3	37.3	-85	72.4	-98	95.2	20.6	20.4	-240.6	-310	2.2	16.4	
5th	13.1	116.9	47.7	139.1	29.2	103.6	11.8	-71.1	-48.7	116.5	2.1	2.9	
6th	9.9	-31.4	42.7	-45.3	65.1	-41.3	21.3	7.3	-31.8	-18.1	2.4	-1	
7th	17	-18.3	-8.1	-14	-12.1	-0.3	-8.5	-20.4	3.4	14.1	0	-0.7	
8th	5.2	10.5	0.8	89.9	-29.8	110.4	-178.8	-75.4	178.9	57.9	-0.8	1.3	

RUN/POINT		Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
		Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.174	Blade 3, r/R=0.325	
MEAN	-1147.3	-4177.7	-1084.1	-4746.8	-1785.5	-663.8					
RMS	475.1	1788.6	488.5	1970.2	1668.2	1239					
1/2 P-P	1016.2	3332.3	993.2	3606.5	2983.1	2333					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	367.7	50.4	-671.8	-2312.6	-133.5	263	2609.5	-478.5	2230.3	-364.4	1594.8
2nd	159.5	515.4	-355	-598.1	-141.7	-578.9	333.9	680.4	271.3	533.8	217.7
3rd	-19.9	83.5	-129.1	-5.3	107.7	20.6	-8.4	147.2	5.9	105.1	31
4th	3.6	-10.4	75.1	34.9	-4.4	-28.7	22.6	-3.3	-11.7	-36.5	-182
5th	-42.7	10	49.2	2.6	-11.4	-78.4	8.1	79.8	2.6	43.8	17.3
6th	-15.4	4.6	14.7	2.3	1	-1	-5.3	-3.1	-5.6	-2.8	-15
7th	-7.1	-10.2	-11.9	-13.6	-8	5.8	-3.6	-9.8	-5.1	-12.8	-5
8th	-16.9	-48.5	-183.1	-61	-14.6	-23	-194.1	-76.9	-158.9	-79.3	-84.6
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
34/25	Blade 3, r/R=0.450	Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
MEAN	-1497.1	-477.7	-903.8	-6062.4	-544.3	-63.6					
RMS	1009.2	266	472.2	1527.1	239.6	32.4					
1/2 P-P	2007.4	420.3	910	2890.9	387.8	59.3					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	1189	-549.5	-181.6	305.6	-162.5	195.1	379.8	1997.5	-263	-183.4	25.5
2nd	190.9	22.6	-39	112.7	86.5	572.2	-268.9	-569.7	51.4	-92.7	-13.6
3rd	28.7	-93.7	6.3	18.7	0.2	-156	155.6	52.1	16	-11.2	-0.6
4th	-280.3	-286.8	8.2	18.8	-11.5	-25.1	2.2	0.2	6.2	11.4	-0.2
5th	11.7	-178.7	-1.9	1.6	81.5	-17.4	-80.4	-2.4	-1.8	-3.5	-0.7
6th	3.4	-6.5	2.1	0.7	2.1	9	-11.2	22.6	-1.5	1	-0.1
7th	-0.1	2.6	0.5	0.8	7	7.2	-2.1	-19.9	1.1	0.4	-0.8
8th	77.7	29.5	0.3	1.5	-31	-31.6	-171.1	-78.9	1.3	3.6	-0.1

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.370	Blade 1, r/R=0.400	Torsion, in-lb
MEAN	-359.2	112.9	318.2	464.5	383.5	-26.6		
RMS	521.1	313.5	203	310.8	371.2	641.9		
1/2 P-P	1004.6	629.7	405.9	632.7	698.6	1131.5		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-333.7	-193.8	-186.1	10.2	-253.5	126.1	-356.4	174.7
2nd	-116.8	-587.4	-51.1	-333.7	-20.6	-55.3	-3.7	-118.8
3rd	-40.7	-96.2	-18	-57.8	-0.8	-19.7	22.1	4.2
4th	-0.7	-7	5.2	-7.1	7.1	-6.6	5.2	-10.2
5th	44.3	96.1	22.1	37.2	3.4	-39.8	-18	-115.8
6th	8.8	-3.1	4.8	-1.3	0.5	0.1	-8.2	0.2
7th	8.4	-5.9	5.4	-2.8	-0.2	0.8	-9.1	0.9
8th	10.3	-47.8	-6.6	-10.4	-34.8	40.8	-55.6	80
RUN/POINT	Flap Bending, in-lb	Blade 1, r/R=0.725	Flap Bending, in-lb	Blade 1, r/R=0.800	Flap Bending, in-lb	Blade 1, r/R=0.900	Chord Bending, in-lb	Chord Bending, in-lb
34/26							Blade 1, r/R=0.144	Blade 1, r/R=0.570
MEAN	-458	-696.9	-662.1	-6363.3	-2410.3	-495.2		
RMS	647.4	557.5	378	2154.4	1091.8	241.5		
1/2 P-P	1156.7	1146.8	1180.4	3630.5	2555.4	407.3		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	372.1	-623.8	214.3	-461	-45.2	-129	-2573.7	1360.5
2nd	-257.2	239	-219.4	157.2	-133.2	27.4	403.4	698.2
3rd	12.5	317.8	-3.4	341.5	15.4	244.2	72.3	-108.8
4th	-54.2	90	-94.5	137	-107.8	135.4	26.1	25.2
5th	110.4	214.5	177.1	259.8	132.3	192.4	-21.3	-85.1
6th	23.8	-18.9	54.4	-36.4	74.8	-29.9	26	-15.6
7th	17	-20.1	-20.8	-34.7	-27.7	-32.9	-13.2	-27.5
8th	-14.4	12.7	-82.6	121.9	-121.8	142	-221.4	176.1

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
34/26						
MEAN	-488.9	-3834.5	-406.1	-4437.4	-1503.2	-598.2
RMS	559.1	2712.4	558	2854.8	2413.2	1760.3
1/2 P-P	1107.1	4492.6	1112.3	4669.2	3962.4	3375.1
HARMONIC	COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE
1st	458.7	252.8 -1355.9	-3456.5 -292.9	361.4 3704	-1288.1 3158.7	-1035.4 2156.4
2nd	174.7	534.8 -431.5	-762.7 -159.3	-584.2 377.5	789.6 305.8	620.3 253.8
3rd	-104.2	-19.4 -107.3	-32.4 14.1	114.3 -52.5	88.1 -28.5	62.5 50.9
4th	22.8	9.7 89.5	49.8 15.7	-2 33.2	-23.4 13.4	94.8 -92.6
5th	-71.7	50.1 69.7	-26.2 -42.8	-98.9 53.5	53 26.7	22.8 -47.6
6th	-18.2	4.9 3.1	14.6 12.8	-2.6 6.6	-20.9 1.6	-17.2 -31.6
7th	-2.6	-11.7 -12.1	4.7 -6.9	3.6 -17.5	14.4 -18.1	1.7 -10.5
8th	7.7	-58.1 -229.9	-149.6 6	-35.3 -244.3	-160.2 -197.6	-157.4 -98.9
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
34/26						
MEAN	-1500.5	-490.9	-230.4	-5746.2	-561.9	-59.4
RMS	1424.1	270.3	494.1	2464.7	244.9	34.4
1/2 P-P	3070.3	436.7	1066.1	4101.2	400.8	62.7
HARMONIC	COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE
1st	1547.1	-931.2 -198	29.1 -285.7	13.8 1130.3	3180.3 -256.3	-199.5 30
2nd	231.6	27.9 -51.3	115.4 111.3	596.3 -309.1	-708.9 69	-90.7 -16.7
3rd	73.5	-86.4 13.4	23.7 66.2	-57.2 123.7	79.9 21.8	-18.5 -1.1
4th	-184.2	-640.5 3.9	21.5 21.3	-8.7 5.3	-5.9 -0.6	15.5 -1.2
5th	-105.9	-188.6 -7.3	0.7 103.8	-56.5 -104.9	31.8 0.5	-9.2 0.3
6th	-26.7	3.4 1.4	0.1 7.1	8 -7.7	23 -2.5	0 0
7th	7.3	-21.6 -0.4	1.6 -7	10.9 -19.3	2.7 1.1	-0.2 -0.5
8th	95.9	61.6 -1.1	3 -5.1	-54.2 -214.4	-165.5 -1.5	5.3 -0.3

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	
MEAN	232.6	480	468.7	531.4	437.1	17.5					
RMS	537.2	312.3	175.3	294.8	361.8	662.8					
1/2 P-P	1064.2	622	362.2	573.5	629.4	1154.3					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-400.6	-1.8	-238.7	-68.1	-6.8	-212.5	118.2	-352.2	171	-424.4	
2nd	-225.6	-579.8	-116.8	-329.8	-45.4	-49.4	-4.6	124.9	-2.9	378.5	
3rd	-17.9	-82.2	-6.4	-49.9	-1.6	-19.3	12.7	-2.2	22.5	-165.7	
4th	7.7	-11.6	8.6	-9.4	4	-6.7	-5.5	-10.2	9.6	10.5	
5th	3.6	53.3	6.2	19.6	14.8	-23.1	17.9	-71.3	-9.8	180	
6th	18.9	-9.2	8.3	-3.1	-5.5	3	-23.2	6.2	-23.9	-32.6	
7th	8.7	-10	5.7	-4.3	-1.3	3.4	-11.9	4.4	6	5.5	
8th	-2.8	-26.5	-8.8	-6.1	-20	23	-29.7	44.5	-17.9	6	
									3.6	12.3	
									43	5.9	
									38.9	-34.9	
RUN/POINT	Flap Bending, in-lb	Flap Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb					
34/27	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.400					
MEAN	-479.5	-754	-747	-5969.1	-2363.8	-507.8					
RMS	664.1	541	332.1	2602.5	1215.7	254.1					
1/2 P-P	1166.2	1079.6	1047.5	4385.1	2905	421.7					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	393.5	-681	228.8	-511.3	-54.7	-149.8	-3061.1	1779.1	-1102.8	205.4	
2nd	-256.3	265.3	-238	188.2	-167.9	48.9	548.3	717.4	297.7	-259.7	
3rd	-11.5	300.1	-37.8	313.9	-17	220.5	80	-121.1	-75.3	112.1	
4th	-6.1	90.1	-22.9	137.9	-55.3	136.3	8.3	35.6	-89	-74.1	
5th	21	113	70.5	149.7	63.4	117.6	30	-45.5	90.8	-16.3	
6th	42.7	-27.4	72.9	-54.7	91.1	-45.1	7.7	2.1	-14.8	-14.6	
7th	13.1	-16.5	-25.7	-16.3	-36.5	-14.2	16.1	-17.2	-13.9	5.9	
8th	-5.6	-3.3	42.7	72	-77.1	90.1	-203.5	-141.3	214.3	-3.3	
									120.4	-1.5	
									-0.6	1.5	

RUN/POINT		Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
		Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.174	Blade 3, r/R=0.325	
MEAN	105.8	-3487.2	205.4	-4154.2	-1230.1	-510.7					
RMS	502.3	3197.3	514.4	3230.4	2740.1	1976					
1/2 P-P	976.6	5170.4	1026.8	5166.4	4442.2	3640.8					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	257.4	199.2	-1703.1	-4047	-206	170.5	4106.7	-1704.9	3513.6	-1400	2380.4
2nd	281	534.7	-568.6	-814.2	-269.8	-590.1	481.9	834.8	384.9	657	299.7
3rd	-86.2	-37.5	-145.5	-45.8	-4	107	-79.2	116.4	-49.1	83.6	64.4
4th	32.1	11.4	68	59.1	25.7	-5	34.1	-28.5	12.4	-110.1	-108.1
5th	-47.9	9.1	36.6	20.3	-8.9	-78.6	-1.2	39.3	0.9	17.9	36.9
6th	-27	6.4	-0.1	5.4	20.8	-5.7	3.3	3.6	-3.7	2	-34.4
7th	-5.3	-14.8	7.6	-25.9	-11.2	5.9	2.1	5.8	-1.7	-4.7	-20.4
8th	1.4	-37.9	-214	-109.6	-0.5	-26.9	-230.6	-111.1	-190.6	-114.5	-98.7
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Blade 4, r/R=0.144	Torsion, in-lb	Pitch Link, lb	Pitch Link, lb
34/27	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1	Blade 1	Blade 1
MEAN	-1473.9	-504.8	0	-5480.1	-580.3	-56.2					
RMS	1578.8	281.4	0	2921.3	257.3	31.3					
1/2 P-P	3213.5	454.6	0	4838.4	430.3	61.1					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	1705.8	-1137.5	-215.7	299.4	0	0	1519.2	3717.8	-257.6	-218.5	27.7
2nd	253.5	23.8	-57.3	130.4	0	0	-425.5	-745.6	80.6	-99.8	-18.3
3rd	92.5	-83.9	10.8	30.1	0	0	142	90.2	26.7	-17	0.4
4th	-214	-730.7	11.6	24	0	0	6.1	2.6	5.7	20.2	-0.3
5th	35.6	-134.5	-5.9	0.5	0	0	-73.8	-11.4	0.8	-9	0.1
6th	-33.1	-7.3	1.3	-1.1	0	0	-12.8	22.7	-3.5	1.9	0.3
7th	-19.2	-11.6	0	1.2	0	0	9.7	-14.2	0.2	-1.2	-0.9
8th	86.2	45.6	-0.5	2.4	0	0	-200.5	-137.3	-1.1	4.6	-1.3

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.570	Blade 1, r/R=0.570
MEAN	841.3	858.4	626.2	605.2	498.6	88.9		
RMS	670	396.2	188.5	297.2	364.4	678.1		
1/2 P-P	1326	757.2	389.9	628.3	698.3	1204.1		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-739.5	12.8	-446.5	-57.6	-88.7	-217.7	88.9	-361
2nd	-232.2	-504.1	-121.9	-285.7	-49	-35.3	-9.4	151.7
3rd	38.9	-145.6	26.5	-83.7	0	-22.8	-3.7	122.3
4th	22.3	4.7	15.8	-1.9	1.6	-10.6	14.1	-9.4
5th	33.4	18.4	16.6	7.9	-1	-9	-16.1	-22.3
6th	26	-13.7	10.5	-5.6	-9.6	3.1	-31.8	-32.8
7th	8.5	-8.4	7.6	-4	3.9	1.6	-4.7	-32.1
8th	4	-54.7	-9.5	-16.5	-35.3	38.9	-52.9	-32.1
RUN/POINT	Flap Bending, in-lb	Flap Bending, in-lb	Flap Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	
34/28	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.400	
MEAN	-461.9	-784.4	-832.9	-5603.1	-2361.4	-515.6		
RMS	709.9	610.9	392.9	3115.7	1485.1	264.7		
1/2 P-P	1248.8	1319.7	1231.4	5121.3	3322.7	463.8		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	396.8	-699.4	230.9	-538.5	-63.7	-174.7	-2974.8	3066.5
2nd	-351.2	230.2	-328.8	168.9	-220.4	56.1	692.8	635.3
3rd	-57.8	367.8	-88.8	375.9	-61.9	263.5	137.6	-139.2
4th	14.1	107.3	10.5	160	-30.3	143.7	20.5	27
5th	118.7	16.9	189.4	41.4	161.5	49.9	18	24.2
6th	58.2	-32.8	77.6	-74.1	82.2	-59.5	9.2	-25.6
7th	13.2	-14.3	-20.7	-15.7	-41.4	-22.2	9.5	-3
8th	-17.8	0.7	-69	136.1	-97.3	165.9	-216.3	-3.1

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
34/28	729.3	-3030.3	844.1	-3854.4	-944.4	-422.6
MEAN	464	3612.3	472.9	3628.1	3097.1	2267.2
RMS	1027.7	5859.4	1081.5	5912.7	5131.2	4364.3
1/2 P-P						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	236	-118.7	-2805	-4114	123.8	148
2nd	276.4	472.2	-684.8	-753.7	-284.5	-521
3rd	-164	-94	-151.4	-101.8	-53.5	179.8
4th	47	30.5	97.8	58.8	39.8	7.3
5th	-13.3	33.4	-16.4	3.5	-25.9	-53.5
6th	-32.7	10.6	-13.1	15	26.8	-10.8
7th	-5.1	-10.2	5	14.1	-15.6	9.6
8th	16	-67.1	-238.7	-244	8.4	-41.2
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
34/28	-1476.1	-513.9	0	-5127.1	-595.9	-50.6
MEAN	1851.7	289.3	0	3359.4	266.4	25.8
RMS	3907.1	474.2	0	5395.7	449.8	53.4
1/2 P-P						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	1729.6	-1594.7	-236.8	297.2	0	2714.3
2nd	349.3	8.4	-63.4	131.1	0	-557.3
3rd	215.4	-81.8	15.5	15.6	0	160.5
4th	-290.8	-911.4	7.7	27.8	0	4.2
5th	27.4	41	-11.3	0.9	0	-10.2
6th	-37.8	19.8	4.3	1.2	0	-2.5
7th	-28.8	-35.4	1.7	0.5	0	14.7
8th	96	94.2	-0.4	5.1	0	-194.7

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570		
34/29	MEAN	1556.5	1301.9	808.9	686	562.7	448.2	382.8	-448.2	382.8	-842.8	SINE	SINE	
	RMS	723.4	421	172.9	304.3	383	190.7	-227.9	190.7	-227.9	349.7	147.5	147.5	
	1/2 P.P	1458.7	850.8	371.4	618.7	702.7	-121.1	36.2	-121.1	36.2	223.5	743.7	743.7	
	HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
	1st	-712	185.7	-434	53.9	-74.6	-181.7	99.4	-359.9	164	-448.2	382.8	-842.8	
	2nd	-350.8	-554.2	-194.3	-316.3	-78.4	-41.6	-15.8	130.3	-9	190.7	-227.9	349.7	
	3rd	134.5	-167.7	79.1	-95.8	3.2	-27.9	-33.1	13.9	-45.1	36.2	-121.1	223.5	
	4th	40.6	13.8	25.6	0.8	1.3	-16.8	-27.1	-32.9	-38.4	-31.4	-42.5	-17.5	
	5th	57.8	33.4	23.7	15.3	-12.4	-11.8	-51.6	-48.2	-68.9	-60.5	-40.4	33.9	
	6th	23.5	-1.6	8.2	-3	-10.5	-5.6	-29.8	-7.9	-30	-8.8	4.9	18.1	
	7th	7.3	-16.3	3.8	-9.4	-5.1	-1.1	-18	3.2	-24.9	5.6	25.6	3.6	
	8th	-15	-49.9	-16.5	-10.8	-22.1	46.2	-25.5	88.5	-15.4	84.3	47.6	-79.5	
RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.725		Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Chord Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400		
34/29	MEAN	-462.5	-824	-912.3	-5237.6	-2365.6	-520.9							
	RMS	797.2	696	438.6	4153.4	1963.5	289.2							
	1/2 P.P	1484.9	1541.1	1381.7	6941.6	4180.5	500.9							
	HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
	1st	429.9	-803.9	253	-635	-74.6	-224.9	-3876.3	4207.1	-1343.9	1711.3	263.2	SINE	
	2nd	-420	251.2	-410.1	181.1	-293	53.6	862.6	771.9	456.6	-84.2	-84.6	-268.5	
	3rd	-120.7	337	-149.8	332.8	-100.6	223.5	169.9	-127.2	-299	23.6	-34.4	120.3	
	4th	38.8	141.1	47.3	209.5	-5.9	184.9	9.1	38.5	214.5	-1536.7	-7	-5.8	
	5th	182.4	24.6	267.6	50	217.7	53.7	19.4	30.4	-2.1	-110.1	27.6	39.6	
	6th	54.3	-8.7	78.8	-60.4	90.5	-52.1	27.1	-25	-33	42.2	9.2	1.2	
	7th	6.5	-16.6	-44.2	-20.5	-65.4	-30.4	25	14.2	-15.9	-11.9	-3.8	-2.4	
	8th	-4.9	0	-41.5	129	-70.8	151.5	-333.4	-158.6	372.6	-3.8	-3	0.8	

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
34/29						
MEAN	1453.7	-2741.2	1592.1	-3565.7	-676.1	-379.3
RMS	505.8	4672.2	533.9	4676.4	3999.5	2898.9
1/2 P-P	1005.4	7785.4	1093	7776.7	6771.5	5467
HARMONIC	COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE
1st	98.5	-52.6	-5165.8	-123.3	-3.2	5031.4
2nd	382.2	493.6	-3870.5	-878.8	-391.9	-551.6
3rd	-189.9	-193.6	-866.2	-138.7	-145.2	216.3
4th	66.5	36.2	-12.9	-103.1	63.6	16.6
5th	-4.2	55.9	-33.7	-44.7	-37.5	-11.6
6th	-35.4	-2.7	-16	6.7	27.8	2.2
7th	-14.7	-14.1	-8.3	3.8	-12.9	16.8
8th	3.7	-69.8	-350.3	-123	-3.4	-34.9
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
34/29						
MEAN	-1502.2	-516.7	0	-4844.4	-609.4	-42.8
RMS	2396.2	314.2	0	4432.5	289.1	24.3
1/2 P-P	4775.5	518.9	0	7393.9	497.4	50.8
HARMONIC	COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE
1st	2043.7	-2150.7	-275.3	304.4	0	3804.4
2nd	434.6	21.9	-68	145.6	0	-707.4
3rd	260.7	-46.4	26.3	9.7	0	156.2
4th	-97.5	-1508.9	-3.2	39	0	2.5
5th	18.3	97.5	-21.7	-3.5	0	3.1
6th	-52.1	44.8	8.3	1.4	0	-20.3
7th	-9.9	-45.2	3	3.5	0	27.2
8th	155.9	54.1	-0.8	4.1	0	-313.1

RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.144	Flap Bending, in-lb Blade 1, r/R=0.167				Flap Bending, in-lb Blade 1, r/R=0.215				Flap Bending, in-lb Blade 1, r/R=0.280				Flap Bending, in-lb Blade 1, r/R=0.325				Flap Bending, in-lb Blade 1, r/R=0.570			
		RMS	927.8	548.6	1804.2	1034.6	1042.6	192.2	515.1	691.4	655.9	370.6	763.5	277.1	725.4	1364.3					
MEAN	2468.4	1869.8																			
RMS	927.8	548.6																			
1/2 P-P	1840.2	1034.6																			
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE		
1st	-1053.8	352.3	-645.3	163.9	-156.2	-135.6	64.5	-14.5	118.5	-333.7	138.9	-425.8	339.3	-830.2							
2nd	-519.1	-272.5	-299.4	-150.6	-110.2	8.7	-14.5	118.5	2.4	158.4	-231.5	242.9									
3rd	162	-237.3	97.6	-133.9	-0.6	-34.5	-40.4	29.5	-56.8	58.7	-143.2	305.7									
4th	81.8	36.5	45.4	8.5	-7.8	-26.1	-53.8	-52.5	-71.8	-52.4	-39.9	-58.5									
5th	83.2	-35	35.3	-9.3	-24.1	20.1	-80.1	32.9	-101.3	36.9	-55.2	35									
6th	48.3	6.3	18.5	-0.4	-18.6	-11	-53.5	-19.1	-56.2	-20.4	21	31.7									
7th	23.6	-21.9	10.3	-11.5	-10.4	0.5	-32.8	7.8	-40.8	11.8	44.5	-15.5									
8th	-10.7	-63.6	-15.6	-16.8	-26.2	50.6	-31.2	103.4	-18.3	100.7	56	-94.6									
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800				Flap Bending, in-lb Blade 1, r/R=0.900				Chord Bending, in-lb Blade 1, r/R=0.144				Chord Bending, in-lb Blade 1, r/R=0.570				Torsion, in-lb Blade 1, r/R=0.400			
34/30																					
MEAN	-408.8	-848.9																			
RMS	876.3	828.6																			
1/2 P-P	1789.5	1904.3																			
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE		
1st	417.5	-821.4	247.9	-673.6	-82.3	-268	-3790.6	6242.7	-1285.3	2309.2	349.6	-210.9									
2nd	-547.6	143.5	-560.1	116.1	-398.1	60.2	1315.3	320	653.8	-242	1.6	23.9									
3rd	-117.7	426.5	-171.7	406.6	-136.9	264.7	308.4	-232.7	-645.5	61.8	-118.9	-46.1									
4th	129.7	157.7	194.8	231.9	114.2	175.2	-26.9	5.6	-262.1	-2037.9	-57.1	77.3									
5th	273.8	-170.9	385.7	-172.1	321.3	-91.7	-7.8	76.8	24.3	-384.7	28.2	22.8									
6th	73.6	1.7	67.1	-80.2	56.8	-69.3	38.7	-56.1	-106	79	8.3	9									
7th	-0.1	3	-50.6	17.8	-85.5	-12.8	-10.4	22.5	6.3	-8.6	1.7	-5									
8th	-9.7	-13.5	-57.1	164.4	-74.1	195.1	-380.2	-196	409.5	179.4	1.4	3.5									

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
34/30	2439.8	-1926.1	2555.5	-2540.3	237.9	-21
MEAN	554.8	5799	641.3	5626.8	4827.8	3483.5
RMS	1242.5	8913.4	1382.1	8728.5	7664.3	6439.4
1/2 P-P						
HARMONIC	COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE
1st	1.5	-318.6 -5845.9	-5551.1 451.8	-198.6 5001.9	-5969.6 4396.3	-5041.5 2917.8
2nd	489.3	293.7 -1164	-641.3 -547.4	1295.1 685	1060.9 555.2	761.6 136.6
3rd	-274.2	-214.8 -190.1	-284.7 -173.4	298.1 -261.9	217 -154	173.9 306.5
4th	106.9	54.9 161	141.1 98.2	24.8 42.3	-122.3 -11.7	-328.1 -329.6
5th	69	103 -40.9	0.9 -59.2	12.5 -7.3	-59.8 6	-11.4 34.3
6th	-54.1	-14 -14.5	33.2 37.7	8 0.2	-82.8 -0.7	-42.5 -47
7th	-15.4	-31.9 12.1	12.7 31.7	21.2 -15	30 -17.9	6.8 -19.1
8th	29.7	-71.9 -373.8	-163.1 -13.2	-56.2 -366.9	-181.1 -301	-185.1 -119.2
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
34/30	-1380.7	-536.7	0	-3919	-640.3	-31.5
MEAN	2925.8	334.4	0	5522.8	305.5	27.9
RMS	5834.4	618.2	0	8563.2	571.9	63.8
1/2 P-P						
HARMONIC	COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE
1st	2023.4	-2895.8 -356	261 0	0 5735.8	5080.1 -212.5	-343.5 18.7
2nd	635.3	-97.8 4.6	64.5 0	0 -1170.4	-631.3 44.6	-45.9 -6.6
3rd	538.7	-77.8 103.8	47.7 0	0 0	175.1 299.8	50.8 -84.6
4th	-621.3	-1800 -63.1	70.8 0	0 11.3	-45.6 -61.5	-15.1 -14.3
5th	55.5	341.5 -21.3	-28.3 0	0 0	23 -10.6	18.9 -27.5
6th	-48.3	137.2 11.2	5.8 0	0 -46	82.1 -7.6	-6.8 1.5
7th	-2.8	-69.8 -0.2	5 0	0 -20.9	22.9 -1.7	-0.9 -1.8
8th	187.3	76.1 1.6	7.9 0	0 0	-345 -191.7	10.1 0.5

RUN/POINT		Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
35/13		Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	-3705.8	-5255.4	-3689.3	-5920.8	-2834.7	-942.5	
RMS	769.2	1167.6	862.1	1465.1	1199.9	832.1	
1/2 P-P	1453.2	2101.4	1674.7	2548.8	2060.2	1443.6	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	567.8	579.4	232.3	-1515.7	-809.2	481.9	1918.2
2nd	170.5	653.8	-166.8	-535.5	-702.3	166.6	594
3rd	150.3	172.1	-80.5	67.6	200.6	-149.6	91.5
4th	-49.5	-40.4	51.4	42.2	-55.2	-53.2	42.3
5th	-48.9	38.7	60.3	-34.6	-34.2	-72.6	41
6th	-4.7	11.6	12.2	-4.6	-9.1	-7.9	-1.5
7th	-3	-14.3	-1.9	-27.7	-10.4	5	-5.4
8th	-32.2	-35.1	-97	-21.2	-20.1	-15.9	-0.6
RUN/POINT		Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Pitch Link, lb
35/13		Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1
MEAN	-1489.1	-417.7	0	0	-6957.2	-466	-87.6
RMS	657.2	273.6	0	1029.8	242.5	40.6	
1/2 P-P	1349.1	425.6	0	1889	394.4	68.5	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	821.3	-80.3	-135.7	337.2	0	-476.9	1230.6
2nd	57.5	15.3	18.2	122.7	0	0	-295.6
3rd	-55.9	-75.6	9	22	0	0	-131.6
4th	-233.5	-148.8	30.8	26.2	0	112.1	-106
5th	-69.2	-241.2	0	1.5	0	51	-547.2
6th	3.6	-27.8	0.3	-0.4	0	0	-9.5
7th	-6.5	24.2	-1.5	0.3	0	0	-13.3
8th	45.2	14.6	2.6	2.9	0	0	7.7

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
35/14	Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.570	
MEAN	-2291	-1083	-185.2	253.6	224.7	294.5	541.9	941.3	-161.6	540	
RMS	500.5	278.5	118.9	233.4					308.1		
1/2 P-P	992.4	561.9	280.7	468.2					56.7		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-395.4	108.2	-225.6	4.6	-21.1	-140.5	105.5	-266.6	154.1	-326	
2nd	-211	-504.3	-107.9	-287.5	-27.8	-45.8	21.9	103.5	31.5	354.1	
3rd	-125.7	19.2	-67.9	5.1	-6.7	-8.6	44.8	-20.1	-67.8	-50.8	
4th	-32.3	-31.7	-12.3	-16.9	6.7	3.3	19.5	16	-20.7	-126.4	
5th	17.3	51	12.3	19.7	10	-19.4	5	-59.9	-0.3	20.6	
6th	-0.1	-10	2.2	-3	5.2	6.5	5	13.4	5.6	-72.8	
7th	10.3	-4	7.3	-2.1	1.5	0.1	-5.2	0.2	-10.5	-29.9	
8th	-22.6	-25.1	-4.5	-3.1	17.3	28.1	31.4	51	13	-11.6	
								31	-0.2	-5.2	
								47	0.1	8.1	
									-22.7	-61	
RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
35/14	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.400	Blade 1, r/R=0.400	
MEAN	-395	-513	-380.6	-6835.5	-2407.5	-483.1	1263.6		-454.4		
RMS	512.5	401.5	214.6	640.9					227.6		
1/2 P-P	943	801.8	561.2	1465.6					374.6		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	300.1	-549.2	176.9	-401.6	-11.4	-103.8	-437.7	-440.6	-409.7	267.1	
2nd	-81.6	262.5	-82.2	184.7	-74.5	48.7	311.3	453.6	106.7	-78.3	
3rd	106.9	136.2	99.6	165.5	86.1	118.1	-5.9	-72.8	56.8	82.9	
4th	-73.5	7.1	-119.4	23.1	-115.9	52.5	27.2	48.5	-126.8	-270.5	
5th	16.6	115.3	41.5	121.4	17.7	79.8	-4.7	-66.8	-11.1	12.8	
6th	6.2	-28	35.2	-24.9	51.6	-25.2	6	8	140.8	-2.4	
7th	19.7	-14.4	4.4	-11.3	3.7	3.4	26.3	-3.1	-22.7	0.5	
8th	17.9	14.7	49.5	63.6	29.4	79	-148.5	-19.9	4.4	2.1	
									-14.5	-1.5	
									149.2	2.7	

RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
35/14								
MEAN	-2433.5	-4423	-2392	-5101.3	-2076.3	-633.5		
RMS	433.4	1080.9	485.2	1317	1094.9	778.8		
1/2 P-P	868.5	2089.3	1068.4	2438.7	2003	1490.1		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	123.2	156.5	345.2	-1324.4	-283.1	38.8	1631.7	521.4
2nd	267.9	489.2	-318	-471.6	-259	-536	333.2	525.8
3rd	11.6	86.4	-61.8	42.5	108	-18.5	32.4	71.5
4th	-19.2	-23.4	49	30.4	-26.3	-39.6	30.7	-7.5
5th	-51.2	15.5	54.9	-17.5	-12.5	-78.9	9.5	80.4
6th	-3.2	11.8	-2.8	0.6	-7.3	-10.8	6.7	5.7
7th	0.9	-8.9	28	-6.4	-9.4	6.5	31	-5.1
8th	-33.2	-35	-155.8	-3.9	-17	-21.6	-169.3	-13.7
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Pitch Link, lb
	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1
35/14								
MEAN	-1368.5	-453.1	0	-6220.2	-513.5	-87.1		
RMS	647.8	261.3	0	903.3	232	31.2		
1/2 P-P	1355.6	421.2	0	1700.7	380	55.8		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	787	-162.4	-152	316.7	0	0	-637.8	893.9
2nd	117.7	-11.8	-5.9	108.8	0	0	-265.5	-475.4
3rd	-24.4	-68.6	14.1	15.3	0	0	84.6	-3.5
4th	-204.4	-171.4	17.9	18.6	0	0	31.8	18.2
5th	-10.4	-226.1	2.6	-3.2	0	0	-79.9	13.6
6th	-16.2	-31.5	0.4	-2	0	0	-13.3	-4.9
7th	-28.5	5.7	-1.1	1.5	0	0	28	-4.1
8th	63	11.7	2.2	3.1	0	0	-145.7	-18.8

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
MEAN	-1030.9		-302.4		140.5		408.6		353		-22.4		
RMS	403.9		233.1		147.9		246.9		303.4		544.1		
1/2 P-P	737.6		461.4		299.5		457.3		512.9		952.7		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-166.7	-41.8	-91.1	-81.9	42.4	-183.8	129.8	-287.8	171.6	-344.4	346.6	-585.2	
2nd	-180	-494.7	-92.1	-281.2	-33.9	-42.6	0.9	104.9	4.5	155.9	-113.4	287.1	
3rd	-90.7	-60.8	-46.3	-39	-3.2	-15.8	36.1	-2.1	55.1	10.4	62.5	159.8	
4th	-9.5	-24	-0.3	-13.3	5.1	1	5.3	7.5	5.5	10.6	-19.2	16.8	
5th	-23.4	7.7	-3.4	3.2	22	0.8	41.6	-8	45.9	-12.5	-26	10.8	
6th	11.3	-8.6	7.8	-1.9	2.7	5.2	-7	9.5	-8.3	9.4	-5.3	-2.9	
7th	7.4	-5.1	7.3	-2.9	5.4	-0.2	0.5	-1.1	-5.2	-1.7	-7.1	6.7	
8th	-5.4	-21.8	-4.8	-0.5	-5.5	27.2	-8	47.1	-5.3	43.9	16.8	-47.4	
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725		Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Chord Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400		
MEAN	-390.3		-606.4		-564.7		-5761.6		-2311.5		-486.6		
RMS	536		428		240.6		1601.8		871.4		227		
1/2 P-P	905.3		854.3		623.9		2863.1		1910.5		395.2		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	324.8	-544.1	189.6	-407	-37.5	-119	-933.1	891.2	-754.8	605.6	173	-244.9	
2nd	-165.9	222	-149.2	152.8	-104.3	38	401.9	558	157.2	-42.5	-53.9	95.4	
3rd	37.1	276.5	22.4	297.3	25.1	213.9	40.4	-121.3	-29.3	122	-6.9	-11.2	
4th	-42.2	22.3	-65.5	44.2	-73.4	58.3	30.1	50.3	-340.8	-515.8	6.8	23.9	
5th	-68.2	6.7	-58.4	11.1	-38.4	15.3	56.5	-6.9	-149.4	-50.3	-2.9	-1.2	
6th	22.7	-21.8	41.2	-24.2	47.8	-13.2	14	13.1	-37.9	1	-2.6		
7th	15.7	-9.2	5.2	-13.2	-2.1	-5.1	14	-25.6	-15.3	22.9	1.3	0.3	
8th	0.3	15.1	-2.9	66	-21.3	72.5	-218.3	-25	213.7	10.1	-0.4	3.2	

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
MEAN	-1164.9	-3375.8	-1096.2	-4017.2	-1130.3	-282.4	-282.4
RMS	524.3	224	543.5	2346.1	1963.5	1408.9	1408.9
1/2 P-P	979.3	3799.3	1055.2	3928.9	3219.9	2411.2	2411.2
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	276.5	420	-877.7	-2929.7	-468.7	3113.1	-772.4
2nd	245	469.2	-416.4	-640.6	-231.6	671.9	304
3rd	-76	46.1	-120.8	-5.9	67.7	-24.7	104.3
4th	2.3	-10.4	77.6	32.8	-10.3	-23.4	30.7
5th	-10.2	-32.2	29.5	52.2	27.1	-37.9	-46.4
6th	-14.5	5.9	15.4	-2.9	3.7	-10.3	3
7th	0.1	-5.9	18.6	-34.9	-6	6	16.6
8th	-18.9	-32.1	-208	-1.1	-17.2	-24.4	-228.6
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Flap Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
MEAN	-1249.1	-481.9	0	-5189.1	-549.2	-82.4	-82.4
RMS	1121.8	258	0	1889.1	231	34.7	34.7
1/2 P-P	2180.6	426.8	0	3264.8	381.7	61.7	61.7
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	1279.2	-661.1	-185.1	289	0	668.4	2476.4
2nd	147.5	42.4	-40.9	110.2	0	-345.8	-245.6
3rd	40.5	-89.5	11	20.5	0	126	55.1
4th	-395.1	-384.3	14	25.6	0	26.6	20.2
5th	151.6	-61.9	2	-0.3	0	-45.8	-52.5
6th	-4.5	-30.4	-0.1	-0.9	0	0	-0.9
7th	-18.2	4.2	-1.9	0.6	0	9.4	-17.8
8th	80	5.5	0.7	2.6	0	0	-215.2

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
		Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.570	Blade 1, r/R=0.570	
MEAN	-228	195.6		343.9		493.1		417.3		36	
RMS	578.1	339.4		163.8		257.9		322.9		601.4	
1/2 P-P	1062.5	608.9		338.6		467.3		569.8		1012.6	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-581.2	-62.3	-343.9	-95.8	-55	-205.8	102.4	-316.3	159.1	-380.4	357.2
2nd	-212.2	-516.3	-111.8	-292.2	-45.7	-40.9	-8.5	114.6	-5	169.7	-139.9
3rd	-29.2	-91.6	-12.4	-56.4	-1.6	-21.9	17.4	-0.2	27.7	15.1	14.8
4th	-13.1	-10.9	-2.6	-7	4.5	-1.3	5.6	-3	5.3	-1.2	-8.7
5th	-21.4	24.6	-2.6	9	23.7	-7.3	43.7	-29.1	48	-38.5	-28.5
6th	14.9	-8.1	7.4	-1.9	5.4	-14.6	9.9	-16.3	10.5	-0.3	-1.2
7th	4.5	-6.7	5.4	-2.7	4.4	3.3	-0.4	5.2	-4.8	4.3	-2.7
8th	-5.2	-20.1	-5.3	-2.8	-7.3	21	-9.3	38.7	-7.8	36.9	15.5
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb
35/16	Blade 1, r/R=0.725		Blade 1, r/R=0.800		Blade 1, r/R=0.900		Blade 1, r/R=0.144		Blade 1, r/R=0.570		Blade 1, r/R=0.400
MEAN	-416.7	-684.9		-679.6		-3424.4		-2309.9		-510.5	
RMS	604.6	481.9		253.7		2130.3		1058.8		249.2	
1/2 P-P	1015.7	892.6		629.7		3345.5		2285.9		417.9	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	360.7	-627.2	216.1	-476.9	-42.1	-146	-1771.3	2270.4	-776.2	998.8	203.6
2nd	-233.8	243.3	-216.5	171.7	-151.2	44.8	569	594	233.4	-75.5	-67.4
3rd	9.2	277.5	-9	290.4	4.2	203.9	57.3	-120.6	-82.8	101.9	-13.2
4th	-30.6	49.8	-44.8	80.8	-58.4	86.8	30.2	43.1	-304.9	-557	3.1
5th	-61.3	34.2	-46.1	46.4	-20.7	38.3	54	-40.4	-144.8	40.2	-1
6th	37.7	-22.4	57.5	-33.6	62.4	-22.1	-4.4	6.6	20.5	-12	2.3
7th	13.9	-14.3	-1.6	-16.7	-11.9	-10.3	31.1	-18.7	-21.3	19.7	-0.5
8th	-1.8	6.8	-4.1	53.1	-21.7	60.7	-164.5	-52.6	178	41.4	2.2

RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	-353.9	-3027.9	-261.6	-3680.3	-789.3	-163.7
RMS	453.2	2654.6	459.7	2633.3	2228.9	1649.7
1/2 P-P	864.1	4246.3	882.3	4201.7	3572.1	2937.6
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	295.2	5.2	-2157.1	-2917	-30.2	204.3
2nd	271.5	481.5	-594.5	-686.6	-266.2	-537.1
3rd	-101.8	-14.2	-124.2	-29.7	17.7	104.5
4th	3.7	6.6	73.8	22.8	-4.8	-12.4
5th	-26.3	-33.7	39.6	46.6	27.6	-54.2
6th	-19	10.4	-6.8	-8.9	14.6	-11
7th	-1.1	-2.7	10.6	-12.6	-2	6.6
8th	-8.9	-36.3	-168.7	-34	-3.8	-26.7
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Pitch Link, lb
	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1
MEAN	-1230.9	-506.9	0	-4896.1	-580.1	-75.8
RMS	1341.9	278.1	0	2306.5	254.3	33
1/2 P-P	2646.9	460.1	0	3663.3	422.1	60.6
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	1269.2	-1195.1	-215.8	294.3	0	2018
2nd	224.1	14.5	-51.7	130.4	0	-507.3
3rd	53.9	-109.6	14.5	27.2	0	138.4
4th	-401.8	-439.2	10.7	24.7	0	35.6
5th	157.9	-112.2	-0.1	-0.6	0	-70.4
6th	1.3	-26.2	-0.1	-1.6	0	-2
7th	-19.8	-15.5	-0.7	-0.3	0	40.1
8th	67.7	20.4	0.3	3	0	-155.1

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325
MEAN	606.5	714.4	560.3	593.1	497.7	116					
RMS	506.5	295.6	168.5	274.4	341.4	646.5					
1/2 P-P	1064.9	620.1	338.8	534.3	621.5	1176.3					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-348.2	-67.1	-205.2	-95.6	10.9	-215.4	129.3	-330.3	180.1	-397.5	361
2nd	-203.5	-532.6	-106.1	-300.1	-45.7	-38.9	-9.5	125.4	-7.5	182.9	-164.1
3rd	47.1	-142.7	31.4	-82.9	4.3	-23.7	-1.6	15.2	-0.3	37	-63
4th	16.8	11.2	12.2	2.7	3.7	-7.1	-19.3	-11.6	-20.4	-32.6	-5
5th	-4.4	11.7	3.5	4.6	15.7	-1.5	22.7	-13.4	23.1	-19.6	-32.1
6th	21.2	-8.6	10.8	-3.4	-1.9	2.2	-16.8	6.4	-19.3	6	-0.1
7th	10.2	-3	9	-1.5	5.6	0.1	-1.4	-6.8	-2.1	-2.4	7.3
8th	7.8	-27.2	-1.3	-7.4	-17.7	20.2	-30.3	42.2	-28	43.3	44.2
MEAN	Flap Bending, in-lb	Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
35/17	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.400	Blade 1, r/R=0.570	Blade 1, r/R=0.400
RMS	657.6	544.1	308.6	-4965.7	-2280.3	-521.4					
1/2 P-P	1165	1136.2	891.8	3258.8	1395.9	264.5					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	374	-662.8	216.9	-516.2	-68.9	-173.8	-3225.4	3104.1	-1090.7	1267.6	226.3
2nd	-282.3	241.3	-264.4	169.6	-182	44.6	581.9	722.7	250.3	-41.5	-86.5
3rd	-72.2	352.8	-96.8	357.2	-63.2	247.6	96.2	-139	-180.3	106.8	-10
4th	0.5	93.9	1.5	138.4	-27.9	126.9	13.7	32.8	-278	-851.9	5.2
5th	-6.9	-2.1	26.8	17	39.1	29.3	31.1	4.9	-106	-76.5	11.2
6th	42	-20.1	61.8	-44.1	69.3	-31.4	4.5	2.8	-7.6	-7.6	6.1
7th	15.8	-7.7	-0.4	-18.6	-14.6	-24.6	-31.8	-20.1	30	17.2	-1.3
8th	-8.3	2.2	-44.9	65	-67.1	73.3	-130.7	-158.7	139.4	154.4	1.4

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
35/17							
MEAN	482.1	-2571.6	573.1	-3206.7	-333.5	-9.4	
RMS	533.5	3866.7	544.1	3821.3	3230.1	2269.2	
1/2 P-P	1009.8	6183.9	1079.5	6070.8	5147.8	3971	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	SINE
1st	316.9	265.5	-2949.6	-4454.4	-287.6	4419.9	-2853.6
2nd	260.9	499.9	-600.1	-832	-265.9	579.8	965.2
3rd	-167.9	-76.3	-137.9	-65.9	-48.7	157.5	-60.5
4th	28.6	33.5	98.7	41.6	14.4	-0.4	44.5
5th	-12.2	-26.6	14.3	42.6	13.6	-48.6	-23.4
6th	-26.8	6.2	2.6	-7.2	14	-6.2	20.7
7th	0.8	-7.4	-21.9	-17.2	-14.3	0	-12.3
8th	9.6	-35.8	-127	-148.4	-8.6	-26.6	-148.1
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Flap Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
35/17							
MEAN	-1206.4	-522.3	0	-4429.5	-602.8	-67.1	
RMS	1772.7	289.2	0	3544.6	267.4	33.3	
1/2 P-P	3437.7	467.2	0	5580.9	453	64.9	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	SINE
1st	1745.8	-1550.1	-237.6	291.3	0	2816.2	3996
2nd	236.7	81.1	-71.8	139	0	-514.9	-812.6
3rd	162.9	-106.4	5.3	26.8	0	145.5	108.8
4th	-372.7	-686	9.7	21.5	0	7.8	-8.5
5th	144.8	-13.7	-5.3	0.8	0	-21.4	-40.5
6th	-18.5	-23	1.9	1.1	0	-5.2	11.4
7th	4.9	-24.1	-0.3	-1.2	0	-10.6	-2.2
8th	65	58.1	-0.1	3.2	0	0	-127.3

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
		Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570
MEAN	940.5	922.3		644.6	634.8	532.9		168.8			
RMS	445.6	268.8		208	296.2	359.1		669.3			
1/2 P-P	885.4	553.9		364.5	555.5	646		1219.1			
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-8.4	-235.8	-0.2	-193.7	102.2	-260	165.9	-350.8	207.8	-414.6	374.6
2nd	-191.4	-505.1	-99.7	-283.4	-46.9	-34.3	-15	121.8	-18.2	176.2	-207.3
3rd	75.5	-192.7	46.9	-110.2	3.2	-27.4	-15	28.1	-20.2	55.8	-112.6
4th	8	11.5	5.2	2.7	-2.2	-7.1	-11.5	-17.7	-15.1	-19.6	-31.9
5th	-7.3	-10.3	0.2	-2.1	9.7	10.6	14	17.4	14.9	17.3	-25.6
6th	28.7	-0.9	11.3	0.1	-11	-0.6	-34.8	-1.7	-39.3	-1.7	11.7
7th	7.9	-4.6	8.6	-1.2	6.3	4.3	0.6	6.2	-6	4.1	-2.7
8th	1.9	-23.3	-6	-7.2	-19.9	15.4	-30.1	33.7	-26	34.9	38.9
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb
35/18	Blade 1, r/R=0.725		Blade 1, r/R=0.800		Blade 1, r/R=0.900		Blade 1, r/R=0.144		Blade 1, r/R=0.570		Blade 1, r/R=0.400
MEAN	-383.7	-737.5		-831.1	-4233.7		-2222		-524.1		
RMS	691.7	578.1		331.7	4421.7		1742.9		271.5		
1/2 P-P	1285.9	1180.7		925.8	6729.3		3747.3		462.6		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	373.1	-681.6	212.3	-532.5	-82.8	-184.4	-4675.5	3986.3	-1365.4	1528.4	241
2nd	-349.7	214	-329.6	147	-224	38.6	665.3	864.8	334.6	-13.7	-252.2
3rd	-110.9	385.7	-135.5	381.4	-97.6	260.1	143.2	-117.4	-252.8	101.7	-98.2
4th	-2.7	81.4	7	126.5	-18.6	112.5	41.2	28.1	-538.8	-1063.8	-119.1
5th	8.4	-70.6	40.4	-65.8	56.5	-26.4	38.3	7.1	-122.7	-128.3	-13.7
6th	59.6	-9.7	64.9	-41.4	54.5	-28.8	2.7	-4.2	13.3	21	-2.4
7th	13.9	-6.5	-1.2	-9.5	-21.6	-18.8	34	-6.8	-28.5	6.3	-13
8th	-11.1	-3.1	-45.3	48.2	-63	53.1	-162.3	-138.7	169.6	128	-0.3

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
35/18	825.5	-1882.8	940.1	-2540.1	233.6	220.6
MEAN	825.5	5001.2	662.8	4906.4	4143.4	2866.3
RMS	692.4	7700.2	1164.1	7510	6357	4825
1/2 P-P						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	488.6	599.2	-3786.5	-585.7	364.1	5691.4
2nd	251.1	471.9	-699.8	-982	-526.2	679.5
3rd	-222.7	-119.3	-149	-103	-79.8	224.6
4th	20.9	33.7	130.2	54.7	11.3	1.4
5th	20.1	-23.9	-9.5	38.4	22.2	-4.9
6th	-32.1	1.7	-12.7	-3.1	27.6	-2.7
7th	0.3	-2.7	21.9	-5.9	-7.5	7.3
8th	15.1	-40	-161	-126.7	6.2	-28.2
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
35/18	-1103.5	-524.9	0	-3762.4	-608.9	-66.4
MEAN	2231.5	294.2	0	4724.6	272.2	36.2
RMS	4346.7	485.4	0	7190.8	465.7	66.7
1/2 P-P						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	2175.2	-1915.8	-252.6	284	0	3689.4
2nd	332.1	104.4	-83.3	141	0	-589.4
3rd	277	-131.4	2	23.8	0	127.1
4th	-650.8	-843.8	3.3	31.3	0	18.2
5th	153.8	81.6	-7.9	3.7	0	-24.1
6th	-9.6	2.7	3.3	0.1	0	-5.9
7th	-17.3	-29.5	0.6	-1.7	0	0
8th	77.1	51.6	-1.3	2.9	0	-152.3

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
		Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.370	Blade 1, r/R=0.400	Blade 1, r/R=0.570	Blade 1, r/R=0.570	
MEAN	1826.1	1471	866.6	727	602.6	236.1					
RMS	538.3	312.1	190.8	299.3	371.5	701.7					
1/2 P-P	1116	646.9	354.5	613.2	707.2	1276					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-230.2	-47.7	-139.1	-73.7	52.2	-227	149.1	-354.8	199.9	-431.8	
2nd	-448.1	-496.8	-253.7	-282.7	-100.9	-30	-18.2	126.8	-3.9	182.3	
3rd	148.4	-213.2	88.1	-123	7.4	-34.9	-34.2	20.2	-48.4	49.4	
4th	35.2	16.1	21.6	2.7	0.9	-13.9	-21.1	-28.2	-29.8	-30.8	
5th	1.3	-37.4	3.3	-12.5	5.4	20.7	1.7	44.8	0.6	49.6	
6th	27.3	-8.5	12.2	-3.2	-7.5	1.1	-28.5	5.8	-32.2	5.7	
7th	1.1	-6.6	6.8	-3.5	12.4	2.5	11	3.7	4.4	3.3	
8th	-5.2	-24.8	-7.8	-6.4	-13.2	20.8	-16.8	42.5	-14.1	42	
RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
35/19	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.400	
MEAN	-396.3	-792.8	-929.3	-3479.3	-2134.8						
RMS	764.1	660	395.6	5690.2	2193.5						
1/2 P-P	1402.6	1328.7	1028.5	8498.5	4436.7						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	403.6	-762.7	229.3	-614.2	-96.2	-229.6	-5226.8	5934.9	-1551.7	2038.9	
2nd	-425.7	195.1	-445.7	133.2	-338.7	33.5	1135.3	849.6	454	21.6	
3rd	-142.2	374.8	-173.9	356	-133.1	231.3	194.4	-134.1	-318.9	33.7	
4th	12.6	90	43.3	127.8	4.5	104.7	38.1	62.9	-255.8	-1559.1	
5th	28.2	-139.2	58.5	-137.5	71.9	-75.2	1.3	38.8	-39.5	-274.3	
6th	61.6	-18.3	65	-53	57.5	-37.2	15.1	-7.1	-20.4	9.3	
7th	6.3	-7.3	7.4	-9.2	-11.1	-16.2	-1.1	-53.9	6.5	44.4	
8th	-7.9	-1.4	-27.9	62.4	-36.8	71.3	-201.8	-112.9	211.4	102.5	

RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	1723.7	-1189.8	1863.1	-1869.9	831.4	437	
RMS	627.9	615.1	615.9	5944.5	5047.9	3469.8	
1/2 P-P	1038.3	9361.8	975.3	9042.1	7689.5	5951.3	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	320.9	400.7	-5580.7	-6487.3	-356.4	6035.4	-5622.9
2nd	469.2	443.1	-1108.6	-1001	-491.3	-521.5	1151.7
3rd	-242	-186.6	-149.5	-168.8	-149.9	248.1	-144.1
4th	45.4	35.7	100.1	118.1	46.1	8.6	68.9
5th	47.6	-21.3	-24.1	35.7	23.7	5.6	-8.1
6th	-33.4	4.3	-12.4	7.9	25.1	-4.6	-5.5
7th	-3.7	-0.6	-14.3	-30.1	-3.8	4	-2.8
8th	0.4	-41.9	-198.5	-96.1	-12.3	-30.5	-220.9
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Pitch Link, lb	
35/19	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1	
MEAN	-1011	-524.7	0	-3079.4	-620.6	-52.6	
RMS	2701.1	323.3	0	5939.1	296.6	31.2	
1/2 P-P	5157.2	517.2	0	9079.8	493.1	56.9	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	2316.3	-2633.3	-291.3	298.3	0	5551.5	6120.9
2nd	467.3	115.7	-65.9	170.8	0	-1049.9	-988.4
3rd	293	-49.9	2.5	9.6	0	115.7	197.4
4th	-475.9	-1260.1	5	35.5	0	36.4	-0.1
5th	117	193.9	-11.3	0.1	0	-4.3	-18.7
6th	-2.7	8.3	3.7	0.4	0	-16.1	33
7th	-12.6	-37.5	-0.3	-0.9	0	26.2	-5.9
8th	93.2	38.1	0	4	0	-198.7	-122.5

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
		Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.370	Blade 1, r/R=0.570	Blade 1, r/R=0.400	Blade 1, r/R=0.570	Blade 1, r/R=0.400
MEAN	2321.8	1781.7	993.6	0	0	646.2	302.8	389.7	-803.9	394.8	269.7
RMS	673.7	400.6	282	0	0	419.3	744	460.3	-205.6	-179.7	-22.6
1/2 P-P	1186.8	716.7	495	0	0	756.8	1434.1	0	0	-56.4	-36.3
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	388.6	-285.9	240	-211.9	220.9	-291	0	0	254	-460.3	389.7
2nd	-523	-470.3	-297.5	-267.1	-114.2	-23.2	0	0	0.7	179.5	-803.9
3rd	152.4	-368.5	92.7	-209.8	6.2	-47.6	0	0	-51.6	107.7	-205.6
4th	46.8	31.8	23.6	7.4	-10.8	-24.6	0	0	-51.3	-56.4	269.7
5th	74.2	36.4	31	17.9	-19.6	-10.6	0	0	-91.4	-49.9	-179.7
6th	29.3	2.5	11.9	2	-8.5	-2.1	0	0	-33.7	-8.2	394.8
7th	3	-7.4	8.9	-6.2	14.8	-3.6	0	0	6.4	-5.6	-36.3
8th	6.4	-44.9	-13	-15.9	-43.5	26.6	0	0	-51	63.8	-22.6
RUN/POINT	Flap Bending, in-lb	Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
35/20	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.400	Blade 1, r/R=0.400	Blade 1, r/R=0.400
MEAN	-350.2	-780.1	-968.4	-2628.3	-2628.3	-2056.7	-520.7	2399	306.2	-2045.5	-255.8
RMS	833.1	754.9	492.4	7571.6	7571.6	2828.1	305.6	0	0	-1026	138.9
1/2 P-P	1559	1662.4	1406.5	11295	11295	5759.5	491.8	74.2	85	-15.1	-13.4
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	407.5	-766.4	223.1	-616.3	-118.4	-235.6	-7603.9	-2021.3	2399	306.2	-255.8
2nd	-503.9	138.1	-525.8	76.6	-392.8	2.4	1356.2	1185.4	585	85	-74.7
3rd	-149.1	501.9	-180.8	467.8	-137.6	298.5	230.7	-184.8	-533.3	74.2	-18.3
4th	39.5	151.6	74.1	210.2	33	164.8	121.9	84.3	-1026	-2045.5	32.2
5th	210.4	39.7	286.4	72.2	237.5	74.9	-23.4	-9.8	79.7	-77.6	17.7
6th	64	0.8	68.8	-42.9	56.4	-35.2	7.2	-14.7	-5.8	28.8	0.1
7th	9.6	-14.4	11.8	-35.9	-2.7	-54.3	-11	-55	21	45.4	7.1
8th	-23.4	1.3	-92.6	80.5	-104	84.6	-289.2	-263.6	321.9	267.1	2.9

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
35/20						
MEAN	2258.8	-409.5	2418.4	-1134.9	1463.6	691
RMS	1039	8112.7	984.3	7259.1	6146.2	4234.2
1/2 P-P	1863.3	12182.2	1745.2	10844.7	9171.6	7228.5
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	607	1054.4	-6880.4	-8959.7	-1019.2	340.2
2nd	514.4	424.9	-1339.3	-1363.3	-549.5	-522.3
3rd	-410.5	-205.6	-210.3	-223.1	-173.5	399.7
4th	54.6	48.1	218.8	152.9	57.8	14.9
5th	13.2	62.9	13.6	-31.4	-46.3	-33
6th	-30.3	-4.4	-13.6	19.9	22.7	1.8
7th	-1.7	0.4	-31.9	-40.8	-5.2	3.8
8th	16.2	-59.4	-288.2	-221.4	-5.8	-51.4
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
35/20						
MEAN	-893.2	-515.5	0	-2390.3	-621.4	-49
RMS	3346.3	332.8	0	8023.4	304.1	38
1/2 P-P	6432.7	522.4	0	12034.4	501.1	71
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	2761.3	-3180.4	-318.1	292	0	6987.3
2nd	572.3	175.7	-64.5	168	0	-1271
3rd	587.8	-90.1	19	8	0	134.1
4th	-1275.6	-1480.1	-6.6	39.8	0	89.9
5th	-3	129.8	-11.6	2.5	0	-21.8
6th	-17.3	56.3	5.4	4.2	0	-7.6
7th	-9.4	-36.3	-3.5	-0.3	0	20.7
8th	127.5	98.5	-0.5	8.8	0	-272.4

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
		Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.370	Blade 1, r/R=0.400	Blade 1, r/R=0.570	Blade 1, r/R=0.570	
MEAN	-3538.7	-1900.9	-575	13.7	-16.1	-495.3					
RMS	963.4	540.7	192.9	370.9	474.9	856.5					
1/2 P-P	1865	999.1	399.8	796.6	1020.9	1585.1					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-258.5	151.8	-121.1	8.2	64.4	-173.3	214.4	-336.6	280.1	-403	
2nd	265.6	-1164.8	187.3	-663.3	74.4	-139.3	26.2	182.8	13.9	293.5	
3rd	-416.2	341.3	-231	177.8	-11.1	13.4	143.9	-91.9	211.3	-127.6	
4th	-126.8	-82.9	-54	-38.8	21	25.1	70.2	61.3	83.8	74.6	
5th	-51.9	103	-10.6	39.8	49.9	-33.9	104.2	-108.9	113.8	-141.1	
6th	-0.7	-22.6	6.3	-2.9	10.5	22.6	10.9	40.1	10.3	39.6	
7th	27.9	-9.8	13.5	0.9	-9.4	10.3	-30.7	15	-35.8	12.4	
8th	-41.3	-15.2	-2.2	6.1	49.9	38.4	82.8	57.5	80	44.6	
RUN/POINT	Flap Bending, in-lb	Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
17/26	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.400	
MEAN	-521.1	-475.2	-143.7	-8630.9	-2650.7						
RMS	778.2	654.4	422.5	1350.1	598.7						
1/2 P-P	1582.8	1448.3	1054.6	2198.4	1362.5						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	377.7	-623.8	218.8	-429	31.2	-91	-134.1	-1670.4	-482.1	-65	
2nd	200.6	558.1	232	359.6	158.3	67.8	-300	774.3	-14.7	-127	
3rd	366.6	127.7	398.1	233.5	330	199.2	26.7	-220.6	119.3	119.5	
4th	-158.6	-153.4	-267.6	-136	-205.7	-25.8	81	46.8	-228.8	185.4	
5th	-175.1	262.7	-196.1	229.4	-180.3	136.6	141.5	-158	-402.6	264.8	
6th	-29.2	-30.3	57	12.4	91.7	-0.2	10.2	54.9	9.3	-10.3	
7th	36.6	-40.1	-19.3	2.5	0.8	52.5	-24.7	46.7	9.5	-67.6	
8th	56.6	45.5	145.8	31.7	110	50.6	-88.3	-24	86.9	20.6	

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
17/26	-3778.6	-6205.3	-3829.9	-6688.6	-3482.5	-1274
MEAN	1015.5	1287.2	1189.9	1482.5	1209.2	838.9
RMS	1965.9	2013.5	2320.6	2377	1873	1681.3
1/2 P-P						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	81.2	543.8	1377.2	-785	-914.3	-49.8
2nd	-209.6	1179	239.8	-775.3	284.4	-1228.7
3rd	383.4	352.3	-220.3	46.1	423.6	-382.8
4th	-111.6	-74.4	77.9	-6.6	-112.1	-105.5
5th	-137.6	-52.7	188.1	104.1	68.2	-176.6
6th	13	10.4	12.2	-25.1	-33.3	-28
7th	-8.3	-26.6	-4.1	38.8	-33.9	17.9
8th	-54.2	2.9	-76.2	-4	-59.7	-14
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
17/26	-1734.5	-392.7	-3508.7	-7819.5	-428.8	-86.6
MEAN	802.9	340.3	1033.2	1399.6	297.3	34.2
RMS	1782	553.2	2004.1	2211.2	473.5	58.9
1/2 P-P						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	779.2	221.6	-169.1	395.4	186.2	-229.8
2nd	-20.1	-38.3	-22.6	157.8	-291.3	1215
3rd	-27.7	-140.4	-63.5	97.8	-415.9	-486.5
4th	-115	252.7	11.4	84.5	-139.9	-97.4
5th	484	-447.7	5.1	-7.1	161.5	26.1
6th	-32.3	-47.9	-5.7	-3.7	14.8	27.2
7th	-6.2	7.2	-3.6	0.2	12.5	28.3
8th	44.6	0.2	7	4.1	-91.5	-37.5

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
		Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.400	
MEAN	-2412.9	-1201.5	-281.4	144	88.9	-404.7					
RMS	784.8	470.4	266.6	392.2	468.6	762.7					
1/2 P-P	1576.4	847	532.9	812.6	916.3	1423.9					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-106.4	-353.8	-30	-305.7	104.6	-312	224.2	-401.5	282.5	-453.4	546.5
2nd	155.4	-899.9	115.3	-507.2	41.1	-93.6	4.8	164.5	-8.8	252.1	-119.8
3rd	-324.3	223.4	-176.1	113.3	-3	5.5	118.4	-63.5	171.7	-83.7	308.4
4th	-96.3	-56.1	-39.2	-24.6	20	22.6	56.3	47.6	66.3	54.4	17.7
5th	-84.1	70.8	-22.2	27.7	60.8	-19.4	132.2	-69.4	149.5	-94.1	-53.1
6th	3.7	-19.7	5.1	-1.3	4.5	22.8	0.4	38.3	0.5	35.9	-1.6
7th	27.6	10.7	14.3	6.3	-1.3	-2.8	-18.8	-12.7	-25.8	-18.5	2.8
8th	-16.3	-8.7	0.3	6.6	21.7	28.6	33.5	39.4	33	28.9	-37.9
RUN/POINT	Flap Bending, in-lb	Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
		Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.400		
MEAN	-545.4	-571.8	-327.4	-8647.7	-2655.4	-410.2					
RMS	688.9	582.8	414.3	1395.4	755.1	261.9					
1/2 P-P	1405.6	1318.5	1072.8	2681	1658.8	429.2					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	382.6	-601	214.2	-416.3	-4.8	-87.5	-1239.1	-1263.4	-772.8	2.9	151.7
2nd	-1.3	416.8	37.7	265.7	42	55.7	-145.3	711.4	57.4	-72.3	-38.3
3rd	245.4	209.6	261.8	291.1	219.6	234.9	27.6	-188.5	142.3	92.1	52.9
4th	-166.9	-114.5	-266.6	-114.4	-217.1	-30.4	55.9	6.1	-326.8	306.1	14.6
5th	-242.9	179.4	-279.6	160.7	-225.9	111.1	140.7	-118.4	-376.9	169.4	-12.8
6th	-18.7	-24.3	43.6	10.5	70.8	10.1	-1.5	39.2	26.3	-74	0.1
7th	31.9	-28.4	1.2	-43.7	24.5	-17	-58.7	7.6	57.7	-30.4	5.9
8th	30.3	31.6	70.3	-2.3	52.5	-1.4	-54.4	-49	51.4	38.3	5.7

RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	-2615.3	-6197.7	-2651	-6717.5	-3441.2	-1333.3
RMS	962.9	1729.4	1103.3	2031.4	1694.5	1240.9
1/2 P-P	2017.9	3165.8	2491.5	3850.7	3190	2482.6
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	584.3	661	1019.2	-2046.6	-956.1	2401.2
2nd	-104.8	916.9	106	-747.4	147.1	-998.4
3rd	223.1	255.5	-143.2	33.8	314.9	-251.4
4th	-82.8	-51	98.5	7.3	-90.9	-82.1
5th	-99.2	-100.8	137.6	106.8	91.4	-140.8
6th	-5.3	21.1	7.6	-18.7	-20	-30.8
7th	15.8	-27.5	-27.7	27.4	-40.1	-6.8
8th	-46.8	-15.4	-56.4	-38.1	-36.4	-18.8
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Pitch Link, lb
	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1
MEAN	-1795.3	-419.5	-2393.3	-7832.2	-467.8	-84.3
RMS	1052.7	309.5	884.6	1688.1	269.9	43.4
1/2 P-P	2403.6	499.2	2034.3	3241.6	455.4	78.2
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	1268.2	107.7	-170.6	366.8	-360.7	-398.4
2nd	42.5	20.9	-34.7	123	-156.4	954.1
3rd	-74.1	-129.9	-53.3	54.3	-259.4	-375
4th	-212.9	234.1	10.1	71	-101.9	-74.4
5th	453.6	-366.7	6.7	0.4	127.5	68.5
6th	-9.3	-85.6	-0.9	-5.5	3	22.8
7th	-16.9	5.3	-5	1.5	-13.3	30
8th	41.3	33.4	5.3	5.9	-49.7	-31.2

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb							
		Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.375	Blade 1, r/R=0.400	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570
MEAN	-1147.1	-418.8	46.3	290.9	208.2	-304.2					
RMS	746.8	450.4	290.8	419	494.3	798.9					
1/2 P-P	1530.2	882.3	569.2	874.4	972.6	1502.4					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	SINE
1st	284	-249.9	201.4	-242.5	212.1	-299.9	268.9	-423.3	318	-489.1	599.1
2nd	38.1	-914.1	41.9	-517.7	5	-97	-14.4	164.4	-27.3	251	-165.5
3rd	-261.1	107.4	-138.4	48.4	1.2	-8.9	101.2	-47.7	143.9	-56.7	245.4
4th	-74.8	-28.1	-29.2	-9.7	17.1	19	45.2	28	51.2	28.7	5.4
5th	-88	92.4	-25.4	33.3	61.1	-35.2	131.9	-104.6	146.2	-133.7	-44.3
6th	-4.3	-9.4	0.3	1.8	3.4	17.2	0.8	23.9	0.5	19.1	-4.6
7th	30.3	18.8	12.3	6.8	-12	-14.6	-35.8	-32.9	-44.2	-36	-16
8th	-47.9	12.5	-6.5	8.8	50.3	8.2	86.1	2.7	80.5	-7.3	19.4
											70.3
											-6.2
RUN/POINT	Flap Bending, in-lb	Blade 1, r/R=0.725	Flap Bending, in-lb	Blade 1, r/R=0.800	Flap Bending, in-lb	Blade 1, r/R=0.900	Flap Bending, in-lb	Blade 1, r/R=0.144	Chord Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb
17/28									Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.400
MEAN	-581.5	-695.9	-527.1	-855.7	-2683	-445.9					
RMS	724	597	428.5	2462.7	1104.4	265.6					
1/2 P-P	1375.2	1154.9	1122.8	4188	2150.9	444.9					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	SINE
1st	431.6	-662.2	240.3	-468.3	-41.1	-110.4	-3147.4	-1063.1	-1242.6	152.5	184.6
2nd	-85.2	389.4	-35.7	239.2	-11.6	36	-19.5	949.6	136.5	-30.7	-70
3rd	204.1	229.9	226.9	284.1	195.5	216.2	49	-145.9	191.8	134.9	43.9
4th	-148.3	-33.3	-222.9	-28	-182.2	25.2	53	-25.9	-459.8	546.4	10.4
5th	-249.1	240.1	-279.8	240.8	-216.2	171.2	132.8	-141	-341.1	252.4	-8
6th	-11.2	-2.9	41.7	21.4	65	22.5	-2.3	20.5	43.7	-45	4.6
7th	20.9	-23.6	-12.4	-74.4	12.2	-63.1	-6.2	23	18.6	-36	5.5
8th	37.2	11.5	133.2	-58.9	131.3	-60.6	-87.4	-31	87.7	18	3.9

RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	-1358.6	-6064.9	-1346.8	-6646.8	-3332.8	-1402.3
RMS	1076.8	3004	1174.9	3254.5	2721.9	1944.4
1/2 P-P	2076.3	4882.3	2260	5286.6	4513.5	3503.3
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	513.5	1084.5	841.5	-4019.7	-1272	417.8
2nd	12.6	875.6	-50.6	-1009.2	51	-907
3rd	119.2	192.2	-139.7	-15.1	241.2	-135.4
4th	-38.7	-7.7	101.4	-37.2	-47.2	-23.5
5th	-112	-94.5	149.1	112.2	98.2	-149
6th	-2.3	15.7	-11.8	-24	-0.6	-22.3
7th	27.1	-35.8	13	33.8	-33.9	-11.4
8th	-57.7	26.9	-103.5	-17.9	-46.9	14.3
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Pitch Link, lb
	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1
MEAN	-1883	-450.7	-1108.5	-7810.1	-509.5	-81.6
RMS	1534.9	304.1	941	2879.6	269.2	47.4
1/2 P-P	2880.6	493.6	1940.1	4785	457.2	83.8
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	1978.6	-121.5	-199.1	344	-311.2	-792.9
2nd	116.3	81	-62	126.6	-70	930.8
3rd	-77.6	-167	-46.7	40.6	-150.6	-288
4th	-372.4	416.9	10.2	52.2	-74.4	-25
5th	376.6	-401.5	5.2	5.6	153.3	63.8
6th	-21.6	-83	3.5	-6.7	-0.8	15
7th	-37.7	-14.9	-4.6	0.6	-14.4	33
8th	57.1	23	5.6	3.7	-47.9	12.2

RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.144	Flap Bending, in-lb Blade 1, r/R=0.167	Flap Bending, in-lb Blade 1, r/R=0.215	Flap Bending, in-lb Blade 1, r/R=0.280	Flap Bending, in-lb Blade 1, r/R=0.325	Flap Bending, in-lb Blade 1, r/R=0.570
MEAN	-445.5	17.6	232.6	380.3	282.5	-234.5
RMS	670.5	407	289.4	423.2	498.2	806.5
1/2 P-P	1478.2	846	591.8	843.2	912.4	1530.2
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	248.3	-257.8	176.3	-245.8	205.3	-304.1
2nd	75.1	-815.1	61.8	-457	6	-75.9
3rd	-168.9	108.8	-85.3	50.1	10.8	-9.1
4th	-39.8	-6.6	-7.5	2.8	25	20.7
5th	-136.7	47.7	-40.7	18.3	84.7	-8.4
6th	2.1	-8	5.4	0	8.3	11.6
7th	38.4	18.1	16.1	4.5	-13.1	-19.7
8th	-29.5	8.1	1.6	4	44	1.3
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800	Flap Bending, in-lb Blade 1, r/R=0.900	Chord Bending, in-lb Blade 1, r/R=0.144	Chord Bending, in-lb Blade 1, r/R=0.570	Torsion, in-lb Blade 1, r/R=0.400
MEAN	-582.4	-750.6	-630.4	-8592.7	-2738.7	-462.4
RMS	756.6	631.1	430.9	2867.7	1246.5	271.7
1/2 P-P	1461.1	1239.4	1075	4843.7	2637.5	453.6
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	442.1	-709.7	249.1	-516.1	-57.5	-138.5
2nd	-162.5	375.4	-97.6	239.8	-45.3	49.4
3rd	109	228	133.3	266.2	129.5	203.2
4th	-147.1	-9	-202.7	-6.2	-165.6	38.3
5th	-392.5	107	-449.8	105.5	-329	88.5
6th	-10.6	-6.7	35.9	4.6	55.8	16.1
7th	18.4	-15.9	-1.9	-76.3	20.9	-70.1
8th	29.1	1.9	112.2	-65.4	119.7	-71.8

RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.174
MEAN	-609.3	-6080.7	-577.5	-6655.2	-3300.1	-1466.7	
RMS	1006.9	3429.6	1052.7	3673.5	3085.1	2216.6	
1/2 P-P	2065.2	5646.6	2148.8	6018.1	5177.4	4268.5	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	504.1	998.5	416.4	-4689.8	-1115.1	374	5032
2nd	-33.5	823.1	-82.4	-1059.2	61	-847.9	1.7
3rd	100.7	116.5	-149.7	-10.1	151	-114.2	-18.4
4th	-18	9.4	94.5	2.7	-34.2	-0.8	-13.1
5th	-82.6	-164.7	72.6	144	148.4	-108.5	-130.3
6th	-6.5	7.9	11.7	-49.3	2.6	-11.1	10.3
7th	26.7	-46.4	-1	50.3	-44.5	-16.3	11.4
8th	-45.9	27.8	-90.3	-24.9	-32.1	29.2	-91.5
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Torsion, in-lb	Pitch Link, lb
	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1
MEAN	-1972.1	-467	-409.7	-7798.1	-531	-78.9	
RMS	1715.9	308.9	874	3320.5	273.4	47.1	
1/2 P-P	3577.1	514.1	1888.9	5533	462.6	83.2	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	2219.8	-361.8	-217.8	341	-326.2	-760.3	-701.3
2nd	152.4	98.5	-82	121.4	-81.9	838	18.2
3rd	-103.6	-93.8	-52.8	32.5	-136.5	-197.5	157.6
4th	20.8	226.9	3.5	32.6	-51.2	-2.4	-5
5th	514.9	-247.9	7.1	-0.2	120.3	137	-96.7
6th	3.7	-111.5	5.3	-7.3	-1.6	7	13.7
7th	-2.8	-21.3	-3.7	-0.1	-16.4	40.4	-32.9
8th	51.2	20.9	2.3	2.9	-37.1	29	-88.4

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
		Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.370	Blade 1, r/R=0.400	Blade 1, r/R=0.570	Blade 1, r/R=0.570	
MEAN	244.4	443.7	408.8	454.8	338.6	-190.3					
RMS	770.7	433.8	219.1	408.1	491.9	834.9					
1/2 P-P	1377	823.7	457.6	885.7	941.6	1540.2					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-714.2	138.8	-415.4	-2.7	-31.2	-212.3	190.5	-402.8	272.6	-488.8	
2nd	-74.6	-765.1	-31.9	-429.7	-36.9	-60.2	-44.3	176.9	-56.4	256.3	
3rd	-134.7	84.8	-67.1	35	7.4	-20.4	59.6	-61.8	81.5	-71	
4th	-36.5	10.8	-7.4	11	22	17.9	35.5	10.7	34.5	3.8	
5th	-105.8	100.3	-29.7	39	74.6	-28.8	163.5	-97.8	182.9	-127.7	
6th	-5.3	4.4	-0.6	6.3	4.6	11.6	3.8	10.4	2.5	2.1	
7th	45.6	22.4	12.4	5.8	-32.5	-24.7	-70.1	-48.2	-76.9	-50.1	
8th	-42.8	56.3	2.7	12.9	70.6	-45.5	111	-92	95.8	-98.7	
RUN/POINT	Flap Bending, in-lb	Blade 1, r/R=0.800	Flap Bending, in-lb	Blade 1, r/R=0.900	Flap Bending, in-lb	Blade 1, r/R=0.144	Chord Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb		
17/30	Blade 1, r/R=0.725						Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570		
MEAN	-599.6	-806.2	-717.4	-8613.3	-2723.9	-479.9					
RMS	811.5	696.7	525.2	2156.1	1283.3	288.6					
1/2 P-P	1555.7	1293.5	1361.6	3937.5	2529.2	464.3					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	470.8	-766.5	280.2	-581.3	-46	-180.8	-280.5	625.7	-1353.2	676.8	
2nd	-259.5	391	-204.3	260.6	-132	73	357.4	815.5	329.3	-43.6	
3rd	81.2	225.4	101.1	250.9	98.4	186.7	61.3	-173.6	179	53.4	
4th	-118.5	39.8	-155.2	40.1	-128.7	62.5	-7.5	-82.6	60.6	618.9	
5th	-327.3	245.3	-362	283.2	-247.4	221.2	157	-102.5	-428.9	120	
6th	-1.4	6.3	45.2	10.7	73.7	30.7	19.6	-7.3	-15.1	-24.3	
7th	12.3	-17.4	-23.4	-108.6	-4.2	-111.6	-13.4	59	17.1	-62.2	
8th	42.5	-29	167.5	-204.4	190.3	-230.3	-230.3	-96.9	115.7	75.6	

RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	70.3	-6050	118.3	-6642.5	-3262.8	-1502.9	
RMS	580.5	2864	620.8	3034.2	2601.9	2051.8	
1/2 P-P	1187.5	4906.5	1262.8	5141.9	4378.8	3985.9	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	SINE
1st	113.3	75.1	-461.6	-3866.7	-143.8	-2.6	-384.9
2nd	77.6	756.4	-341.5	-957.8	-69.6	-812.7	2618.2
3rd	86.1	86.8	-147.9	-2.5	116.5	-96	-685.2
4th	-16.2	25.2	93.1	-51.1	-23.7	9	332.8
5th	-129.7	-130.4	92.8	130.8	120.6	-148.4	284.9
6th	-1.9	0.9	-14.9	-29.8	1.3	-8.1	-42.9
7th	22.4	-50.5	17.2	24.9	-49.2	-18.1	270.6
8th	-62.6	89.7	-73.4	120.1	-50.2	77.5	-186.5
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Pitch Link, lb	Pitch Link, lb
	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 4, r/R=0.400	Blade 4, r/R=0.400
MEAN	-2006.8	-481.2	449.4	-7866.9	-553.7	-74.1	
RMS	1670.9	324.5	746.6	2528.4	293.5	37.1	
1/2 P-P	3500.9	537.1	1699.6	4483.9	474.2	68.8	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	SINE
1st	2023.7	-770	-247.1	343.5	-40.1	59.7	-249.2
2nd	301.1	54.3	-86.9	132	-110.4	935.1	34.2
3rd	-74	-73	-54.7	35.1	112.8	-249.5	-31.2
4th	-0.2	351.7	2.3	37.8	-110.4	-189.2	-18.9
5th	428.7	-326	10	-6.6	57.2	202.8	11
6th	-69.6	-118.8	1.7	-9.7	102.2	66.6	-100.3
7th	3.7	-19.9	-1.8	5.2	-26.3	-83.2	-18.9
8th	61.9	-39.3	7.1	-4.7	-91.2	154.9	-104.1

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.570	
MEAN	1251	1071.3	664.9	572.3	432.7	-96.7					
RMS	661.3	375.7	275	440.8	526.2	889.5					
1/2 P-P	1368.5	771.4	569.5	949.9	1034.1	1520.2					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	152.8	64.6	106.8	-36.2	200.8	-238.7	280.2	-425.6	343.1	-514.6	
2nd	-417.7	-767.3	-238.8	-435.1	-109	-61.6	-48.7	177.2	-40	257	
3rd	-146.1	65.1	-71.1	21.4	10.9	-31	70.7	-71.9	93.9	-82.5	
4th	-34	43.5	-6.9	28.1	16.1	14.1	30.5	-6.5	28.2	-18.6	
5th	-83.5	118	-22	46.5	63.9	-36.3	134.7	-117.7	148.7	-150.3	
6th	18.2	11.2	11	7	3.7	2.6	-10.5	-5.9	-17.8	-15.9	
7th	61.5	22.6	21.6	4.3	-31	-28.7	-76.1	-55.5	-84.3	-56.9	
8th	-15.5	71.2	13.1	12.8	58.3	-71.2	78.6	-135.7	58.6	-137.5	
RUN/POINT	Flap Bending, in-lb	Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.400	
MEAN	-613.6	-892.6	-855.5	-7793.2	-2635.6	-527.9					
RMS	870.5	750.7	537	4890.2	1899.3	306.9					
1/2 P-P	1631.6	1425.2	1417.9	7933.3	3569.1	542.7					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	535.6	-855.1	310.5	-669.4	-88	-225.5	-6305.6	2367.4	-2138.2	1209.1	
2nd	-294	356	-267.4	225.2	-226.8	45.7	744.4	1226.2	498.8	22	
3rd	116.9	211.1	139.4	226.1	134.3	160.7	134.9	-243.1	86.8	-69.1	
4th	-65.4	102.6	-66.4	112.5	-39.2	124.1	23.1	-87.1	68.6	540.5	
5th	-286.6	297.7	-316.6	353.7	-217.5	275	73.8	-118	-276.3	151.5	
6th	44.8	19.8	91.3	6.4	103	9.3	-3.1	-1.3	18	-15.8	
7th	16.4	-18.9	-13.2	-128.3	8.2	-141.6	-6	7.1	26.3	-0.3	
8th	29.6	-52.3	99.1	-274.3	116.9	-306.1	-0.6	258	-9.2	-261	

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
17/31						
MEAN	1127	-5373.4	1208.6	-5988.6	-2674.4	-1319.4
RMS	963.8	5573.1	985.4	5551.9	4708.7	3378.7
1/2 P-P	2045.8	8942.3	2068.1	8828.2	7461.5	5916.2
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	212.6	971.2	-1949.3	-7437.3	-1011.9	34.4
2nd	399.2	783.8	-740.7	-1450.7	-409.9	-801.6
3rd	49	84	-224	-81.2	119.2	-59.1
4th	-28.8	30.9	98.3	-75.6	-21	36.6
5th	-152.2	-99.3	102.5	92.1	104.5	-171.8
6th	-19.5	-22.6	-11.3	-14.1	18.2	17.1
7th	34.6	-60.5	10.8	26.2	-56.3	-30
8th	-22.4	130.9	17.4	254.1	-26.6	112.8
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
17/31						
MEAN	-1954.2	-518.1	0	-7249.3	-604.3	-78.7
RMS	2564.1	346.9	0	5304.5	311.7	43.2
1/2 P-P	4670.5	554.6	0	8560.2	530.3	76.5
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	3117.9	-1530.8	-313.2	330.8	0	1926.3
2nd	418.4	152	-55.9	151.6	0	-590.6
3rd	-75.3	-38.2	-35.8	57	0	247.6
4th	29.8	290	-28.1	14.9	0	20.8
5th	308.4	-343.8	17.6	-10.7	0	-133.3
6th	-66.4	-74.3	5.6	-6.9	0	-5.6
7th	-5.9	-58	-5.9	0	0	12
8th	11.7	-94.1	1.8	-7.4	0	-5.6

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
		Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.370	Blade 1, r/R=0.570	
MEAN	2061.4	1581.1	875.3	688.9	534.9	45.4					
RMS	626.7	355.5	244.4	420.4	503.5	877.8					
1/2 P-P	1269.7	694.2	533.5	960.8	1007.1	1513.8					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-383.5	56.3	-223.7	-30.8	71.3	-234.2	225.1	-410.3	305	-496.1	669.7
2nd	-336.3	-596.1	-198.1	-332.7	-102.4	-39.7	-75.6	158	-73.6	219.3	-329.6
3rd	-168.4	-98.9	-76.7	-64.1	6.2	-45.5	76.5	-27	103.3	-20.5	154.8
4th	-16.3	97.2	-4.6	50.8	-13	-4.3	-6.5	-53.2	-10.5	-77	14.8
5th	-117.6	127.7	-38.5	55.3	65.4	-22.2	154.6	-101.5	175.2	-134.5	-23.4
6th	13.8	33.7	4.4	13.6	-6	-10.1	-18.7	-37.4	-21.5	-51.3	-22.2
7th	62.3	38.3	16.9	9.8	-40.8	-36.7	-92.1	-73.5	-74.3	61.6	130.8
8th	0.7	63.4	11.6	11	33.1	-65.5	36.2	-127.6	19.1	-128.7	-86
RUN/POINT	Flap Bending, in-lb	Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
		Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.400	Blade 1, r/R=0.400	
MEAN	-510.4	-860.7	-935	-6486	-2655.4	-612.1					
RMS	967.4	892.2	665.3	6054.1	2469.4	403.2					
1/2 P-P	1758.8	1833.7	1857.5	9387.8	5175.4	850.2					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	582.7	-876.1	362.8	-726.8	-80.5	-280.4	-6202.6	5629.3	-2068.2	2170.3	417.9
2nd	-462	214	-424.1	116.6	-311.7	18.7	944.3	1245.1	832.3	-153	70.9
3rd	127.6	449.7	133.5	458.2	121.9	331.5	296.4	-236.9	-459.2	-11.5	-84.3
4th	41.8	234.4	82.4	290.1	79.1	252.1	107.6	-77.9	-1098.9	-520.3	-243.6
5th	-313.4	278.5	-321.7	381.8	-196.3	316.9	168.2	-99	-502.1	8.2	-65.5
6th	44.1	31.8	105.2	0.3	118.9	9.1	14	-7.1	-70.9	25.3	1.8
7th	-0.7	-12.8	-36.4	-181.7	-25.7	-223.8	-34.3	34.2	47.1	-1.6	11.2
8th	21.5	-49.4	16.7	-268.3	3	-334.8	27.8	159.1	-19.7	-172.4	6.1

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
17/32						
MEAN	2022.4	-4104.3	2098.2	-4819.2	-1657.4	-1012.6
RMS	670.9	6707.5	646.2	6440.4	5504	3984.3
1/2 P-P	1534.4	10440.9	1475.3	9771.8	8302.4	7376.9
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	196.4	507.7	-4810.9	-7954	-437.9	-24.7
2nd	284.4	601.9	-854.3	-1480.1	-290.7	-616.9
3rd	-138.4	123.7	-267.6	-263.3	162	124.9
4th	-38.4	81.4	201.7	-135.8	1.3	96.2
5th	-112.9	-144.7	76	188.1	135.5	-144
6th	-10.5	-40.5	-17.8	3.4	22.7	34.1
7th	58.1	-59.5	-15.1	53.9	-59.4	-50.2
8th	-27.9	105.9	26.3	135.3	-10.8	96
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
17/32						
MEAN	-1910.1	-589.2	0	-6196.4	-674.5	-81.7
RMS	3200.2	403.8	0	6476.5	371.9	55.7
1/2 P-P	6296.1	834.1	0	9925.2	782.9	132.6
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	3061.1	-2761.2	-427.4	210.7	0	4787.8
2nd	713.1	15.6	46.4	46.9	0	-726.3
3rd	440.8	-67.9	31.4	238.6	0	239.3
4th	-1236	-547.6	-166.9	-21	0	77.3
5th	555.2	-152.9	48	-31.9	0	0
6th	-140.3	-10.7	10.9	3.8	0	-106.7
7th	9.2	-95.8	-11.4	0.5	0	14.1
8th	-13.2	-20.2	6.5	-10.3	0	0

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
		Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.570	Blade 1, r/R=0.570	
MEAN	-343.8	103.3	289.8	444.5	354.3	354.3	354.3	354.3	-132.1	-132.1	
RMS	820.2	478.9	245.3	365.2	452.4	452.4	452.4	452.4	801.7	801.7	
1/2 P-P	1459.8	902.3	498	720.5	859.7	859.7	859.7	859.7	1398	1398	
		HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-158.6	-183.6	-79.1	-188.9	89.1	-279.9	202.9	-397.6	264	-467	529.5
2nd	-509.2	-961.6	-282.6	-552.5	-109	-99.4	-8.8	181	14.3	276.4	4.9
3rd	-128.9	125.2	-66.2	59.4	2.6	-16.4	63	-77.4	92.2	-98.7	184.3
4th	-63.4	-40.3	-23.5	-17.8	12.7	14.2	39	28.4	48.6	33	9.6
5th	-0.7	63.4	7	21	21	-35.2	25.5	-92.6	21.2	-110.9	-19
6th	-15	3.8	-5.9	5.8	7.1	11	15.7	8.7	18.6	1.8	-28.4
7th	11.4	-9.7	2	-1.3	-16.7	9.1	-35.1	15.1	-36.7	13.8	37.8
8th	-16.2	25.4	3.3	6.1	30.9	-19.2	44.5	-40.6	35.3	-46	-24.2
		RUN/POINT	Flap Bending, in-lb	Flap Bending, in-lb	Flap Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Torsion, in-lb
14/9	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.144	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.570	
MEAN	-535.2	-741.1	-653.1	-6137.8	-6137.8	-6137.8	-6137.8	-6137.8	-2559.9	-2559.9	
RMS	767.2	600.5	344.2	2790.8	2790.8	2790.8	2790.8	2790.8	1170	1170	
1/2 P-P	1241.9	1011.8	702.6	5274.4	5274.4	5274.4	5274.4	5274.4	2053.2	2053.2	
		HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	520.3	-786.9	303.8	-605.9	-53.9	-184.3	-3252	1553.3	-1331.2	802.8	254.4
2nd	-102	397.9	-109.5	243.5	-145.3	19.6	835.4	1186.7	265.3	55.8	-50.9
3rd	177	116.3	203.3	153.5	192.6	105.2	-26.6	-155.3	260	78.5	-15.2
4th	-145.4	45.1	-202.4	81.2	-169.1	121	61	-6.2	21.7	171.2	4.1
5th	-53	187.2	-67.2	210.7	-86.1	154.6	2.4	-83.6	-36.4	170.8	-3
6th	-5.1	-8.8	55.1	-13.9	83.3	-23.6	19	0.3	-2.7	-19.9	5.5
7th	2.1	-15.4	-12	-4.8	10.3	17	47.4	-16	-33.1	16.4	-0.5
8th	28.6	-13.2	52.7	-89.5	33.6	-82.7	3.5	84	-5.4	-92.7	-1.4

RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	-532.3	-3808.5	-394	-4529.2	-1540.8	-567.1
RMS	888.4	3396	922.6	3450.6	2899.8	2076.8
1/2 P-P	1857.9	6115.2	2066.1	6121.8	5020.6	3490.2
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	437.9	490.8	-1545.8	-4261	-589.7	288
2nd	509.2	896.6	-832.2	-1198.9	-503	-958.1
3rd	153.4	63.2	-178.8	78.3	114.2	-129.9
4th	-42.7	-17.4	85.9	1.6	-45.6	-24
5th	-68.1	-5.6	91.7	-12.1	1.3	-85
6th	7.8	2.8	-37.8	-14.3	-2.9	-6.3
7th	-7.8	-14.7	-0.2	-15.9	-10	13.6
8th	-6.7	20.3	-4.3	82.3	-2	15.4
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Pitch Link, lb
	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1
MEAN	-1560.2	-517.5	-207.6	-5690.5	-584.8	-104.6
RMS	1596	355.8	809.1	2987.5	322.7	52.3
1/2 P-P	2892.7	569.7	1700.6	5613.2	516.9	93.4
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	1921.4	-1042.4	-266.4	367.4	-155.4	1272.7
2nd	225.3	140.9	-39.4	206.9	453.9	965
3rd	-209.5	-122.3	9.5	43.1	-165.6	-149.8
4th	-72.7	-89	14.5	21.2	-69.8	-29.1
5th	-7.6	-243.6	3.9	-1.1	89.9	-11.1
6th	-65.9	-66.1	5.3	1.4	7.9	1.5
7th	-8.7	-38	-0.2	-7.4	13.5	12.4
8th	-0.1	-27.3	-1.8	-0.3	-2.7	30.1

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
14/17	Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	
MEAN	-3854.7	-2077.3	-615.7	35.1	30.7	-394.9					
RMS	1106.7	671	332.1	364.6	433.1	748.2					
1/2 P-P	2309.8	1362.3	575.4	791.7	916.1	1335.3					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	1024.9	-228.3	650.7	-207.6	362.3	-245.8	281.2	-324	298.6	-368.7	
2nd	-208	-1031.8	-93.4	-596.5	-10.8	-128.3	49	155.1	67.6	457.6	
3rd	-353.1	254.3	-195	133.8	-13.7	13.3	122.9	-67.8	181.3	251.4	
4th	-101.3	-92.3	-45.2	-48.8	12.5	10	52.5	48.4	-97.4	173	
5th	9.1	82.2	10.5	27.8	19.1	-42.8	22.7	-109.4	64.8	363.9	
6th	-9.9	-16.7	-0.9	-3.9	8.8	13.1	13.3	26.7	13.7	-173.9	
7th	15.2	-6.6	4.9	1.7	-11.6	10	-26.1	14.6	-29.7	46.8	
8th	-27.9	-21.2	-1.9	0.7	31.7	33.5	52.7	57.7	12.9	51.9	
									27.5	-13.2	
									-22.2	-10.5	
									-29.7	-10.5	
									25.6	-23.8	
									-94.8		
RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb					
14/17	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.144	Blade 1, r/R=0.144	Blade 1, r/R=0.144	Blade 1, r/R=0.400	
MEAN	-414.1	-402.2	-120.9	-751.54	-2782.3	-426.1					
RMS	677.4	565.1	362.1	1861.1	649.1	297.7					
1/2 P-P	1302.1	1259.4	924.9	3171.5	1277.7	485.6					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	364.3	-545.7	209.6	-389.7	2.6	-90.9	-2115.2	-1311.4	-744.9	-49.2	
2nd	173.7	441.7	157.5	268	47.1	19.1	93.5	770	20.6	150.4	
3rd	385.9	100.5	409.9	180	329.6	152.3	-47	-150.4	164.6	-350.9	
4th	-154.8	-86.5	-243.9	-68.7	-197.6	18.8	72.1	55.7	-253.2	161.2	
5th	-23	226.8	-32	213.8	-69.8	132.5	3.1	-110.6	-66.5	38.5	
6th	-10.1	-31.4	53.5	-16.1	78.4	-27.3	31.3	21.5	-29.7	48.2	
7th	18.5	-24.4	-20.4	15.6	-5.7	53.9	-9.1	23.8	-3.5	0.4	
8th	38.2	28.6	85.8	54.8	57.5	77	-98.2	0.4	90.9	-1.3	

RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	-4116.3	-5073.5	-4052.7	-5720.3	-2761.4	-1115.7
RMS	1512.8	2169.8	1682.9	2506.8	2035.9	1361.6
1/2 P-P	2928.5	3720.8	3149.7	4100.3	3290.5	2230.1
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	482.8	1729.1	837.3	-2831.7	-2022.6	272.4
2nd	234.2	1026.7	-114.6	-732.8	-192	-1091.8
3rd	296.1	321	-142.8	92.8	358.2	-283
4th	78.2	-84.3	104.7	73.9	-85.1	-103.3
5th	-104.8	24.5	121.2	4	-9.8	-121
6th	-0.1	8.4	20.9	-18.6	-10.2	-7.7
7th	-12	-20.6	-11.3	15.6	-14.9	13.2
8th	-23.5	-6.8	-94.2	5.6	-18.1	3.2
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Pitch Link, lb
	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1
MEAN	-1772.2	-432.8	-3714.3	-6998	-473	-120
RMS	1016.5	347.5	1236.3	1996.8	303.5	59.6
1/2 P-P	1860.1	548.2	2485.2	3389.7	508	100
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	1328	134.8	-170.4	407.9	-212.8	-1260.6
2nd	20.5	25.8	17.6	187.5	165.5	1046.7
3rd	-102.7	-152.5	-1	68.6	-297.2	-386.2
4th	-286.6	-142.4	34.2	65	-101.2	-98.2
5th	63.9	-323.6	-1.1	11.2	106.4	-37.8
6th	35.5	-20.2	3.3	1.2	13.6	14.5
7th	25.9	4.1	-1.6	-3.1	13.3	21.9
8th	34.7	-5.2	0.7	2.5	-57.4	-9.5

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
		Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.570	Blade 1, r/R=0.570	
MEAN	-2392.3	-1166.2	-231.3	213.5	176.7	-259.7			
RMS	742	436	212.4	321.4	396.6	700.8			
1/2 P-P	1260.3	761.2	427.5	603.3	736.2	1250.4			
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-312.4	-250.6	-165.7	-231.6	31.9	-264.8	166.4	-346.2	
2nd	-148.1	-896.8	-63.5	-512.4	-18	-97.9	12.7	224.3	
3rd	-224.9	170.3	-120.8	86.5	-2.7	-0.8	87.5	-62.3	
4th	-66.3	-51.1	-26.1	-23.7	14.8	14.7	41.8	38.5	
5th	-14.3	55.5	2.7	17.9	29.1	-29.2	46.2	-73.2	
6th	-11.1	-8.4	-0.8	1.7	13	15.8	19.9	25.6	
7th	21.8	-10.4	11	-1.6	-5.4	6.8	-22.9	13.2	
8th	-10.3	13	0.8	6.4	18	-2.9	26.9	-10.1	
RUN/POINT	Flap Bending, in-lb	Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
14/18	Blade 1, r/R=0.725	Blade 1, r/R=0.800		Blade 1, r/R=0.900		Blade 1, r/R=0.144		Blade 1, r/R=0.570	
MEAN	-447.3	-527.7	-360.3	-6878.4	-6878.4	-2729.2	-460.5		
RMS	646.8	522.1	322.3	998.9	998.9	634.4	278.8		
1/2 P-P	1164.3	1057.4	795.7	1949	1949	1456.2	452.4		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	396.3	-610.5	234.4	-48.9	-8.2	-119.1	-924.2	-593.4	183.2
2nd	-13.9	386.1	1.2	240.3	-19.9	32.9	227.2	770	91.7
3rd	214.3	157.5	235.4	215.6	205.5	167.8	-46.4	-163.3	190.9
4th	-159.2	-35.3	-242.1	-14.4	-204.7	49.1	58.4	28.1	-187.5
5th	-92	159.6	-111.6	156.2	-116.8	109.7	11.4	-97	-92.4
6th	-24.4	-29.9	32.7	-19.8	62.6	-21.4	1.3	7.7	4.8
7th	15.8	-23	-9.8	-1.6	7.7	28	-7.7	41.2	-44.9
8th	24.2	3.9	44	-43.4	25	-35	-53.9	19.7	49.3

RUN/POINT		Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb
14/18		Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.174
MEAN	-2601.8	-4616.2	-2501.6	-5224.1	-2267.4	-947.9	
RMS	809.5	1537.1	864.5	1743	1444.8	1045	
1/2 P-P	1537.1	2811.8	1835	3130.7	2498.4	1912.8	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	505.6	366.4	311.4	-1946.2	-543.2	329.5	2180.9
2nd	172.1	888.5	-238.6	-813.8	-155.7	-963.1	198.4
3rd	180.5	174.1	-135.7	79.3	219.5	-192.4	71.1
4th	-57.7	-48.5	75	3.8	-74.7	-69.5	45.6
5th	-86.1	-16	97.4	-14.6	18.9	-115.7	7.4
6th	15.3	8.2	-8.1	8.2	-24.8	-17.3	36.1
7th	-7.6	-18.3	17	32.7	-22	17.5	16.1
8th	-3.4	15.4	-48.2	30.9	-8.1	1.1	-45
RUN/POINT		Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Pitch Link, lb
14/18		Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1
MEAN	-1761.2	-460.2	-2279.1	-6289.6	-515.9	-111.9	
RMS	884.8	320.7	742.4	1198.9	283.7	46.5	
1/2 P-P	1894.3	519.8	1387.8	2303.7	464.3	82.3	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	1063.2	-144.1	-198.2	366.8	-228.4	19.8	-669.8
2nd	84.7	29.6	-17.2	163.8	135.4	933.1	-189.4
3rd	-147.6	-146.5	2.7	43.3	-201.4	-259.8	179
4th	-111.9	-6.6	19.2	44.4	-81	-64.7	63
5th	106.1	-318.7	4.7	2.8	99.6	-2.3	-108.8
6th	-37.9	-47.5	2.9	-2.3	9.7	11.9	-17
7th	-11	-9	-1.7	-3.7	9.5	19.5	-8.2
8th	17.5	-6.6	-0.1	2.1	-17.3	-2.4	-42.9

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
		Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.370	Blade 1, r/R=0.370	
MEAN	-1185	-413.5	83.2	359.9	297.9	-130.2	-130.2	-130.2	-130.2	-130.2	-130.2
RMS	679.8	400.9	227.1	343	419.5	722.2	722.2	722.2	722.2	722.2	722.2
1/2 P-P	1299.9	812.8	413.3	671	788.3	1289.6	1289.6	1289.6	1289.6	1289.6	1289.6
HARMONIC											
1st	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
2nd	-100.7	-225.5	-41.1	-215.6	94.5	-275.2	194.8	-373.8	249.3	-432.1	469.3
3rd	-203	-882.8	-97.7	-503	-38.8	-91.3	-0.7	163.6	5	249.1	-42.1
4th	-129.7	-3.6	-65	-8.9	1.1	-14.9	60.5	-22.9	90	-21.7	197.5
5th	-33.5	-35.6	-10	-16.2	11	10.7	23.6	25.6	28.5	31.2	4.7
6th	-2.6	107.4	8.1	39.8	30.8	-45.7	43.1	-123.4	40.1	-149.5	-30.6
7th	-2.6	3	1.1	4.5	6.5	8.8	8.5	11.4	10.7	6.6	-19.7
8th	20.2	1.8	9.8	3.6	-7.3	4.3	-24.1	4.3	-28.9	3.5	31.3
	-11.6	15.4	1.3	5	19.7	-7.8	31.1	-16.9	26.2	-21.5	-1.9
											48
RUN/POINT											
14/19	Flap Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.400
MEAN	-446.3	-627.4	-542.8	-6158.7	-2700.8	-501.5	-501.5	-501.5	-501.5	-501.5	-501.5
RMS	689.8	561.4	337.3	1879.3	953.3	290.7	290.7	290.7	290.7	290.7	290.7
1/2 P-P	1205	1014.9	732.7	3507.7	2000.3	477.5	477.5	477.5	477.5	477.5	477.5
HARMONIC											
1st	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
2nd	437.8	-663.7	250.2	-499.5	-44.4	-148.7	-2390	370.6	-1007.6	509.2	218.1
3rd	-103	343.2	-80	206.7	-71	14.8	396.1	934.5	172	6.3	-302.8
4th	148.8	255.7	167.7	291.9	162	211	-25.7	-140.3	134.4	175.1	155.8
5th	-127.1	9.8	-191.2	34.8	-165.3	77.9	62.8	8.6	-400	-118.7	-20.6
6th	-72.8	264.1	-77.2	298.3	-79.5	210.4	0.3	-123.2	-62.1	256.9	4.3
7th	-5.2	-6.6	49.9	6.5	76.1	2.3	14.1	-9.4	-0.8	-7.1	4
8th	7.7	-13	-15	-9.6	2.4	9.5	7.2	20.3	-22.3	-23.1	4.3
	20.1	-2.2	36.3	-56.1	19.3	-54.5	-30.5	51	24.7	-54.7	-0.4

RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
14/19	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	-1382.7	-3791.3	-1266.7	-4414.1	-1519.3	-671.3				
RMS	838.9	2653.4	876.2	2761.8	2304.9	1648.9				
1/2 P-P	1598.5	4733.9	1802.3	4798	3874.5	2860.8				
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	525.1	580.9	-646.7	-3507.3	-700.7	343.5	3695.3	-440.3	3110.3	-314.6
2nd	226	842.7	-416.4	-1000.5	-210.5	-914.5	325.4	1081.9	243.7	844.4
3rd	-2.9	86.7	-118.3	48	121.2	-3.9	39.4	114	33.3	63.9
4th	-21.9	-27.6	120.3	13.5	-31	-41	43.6	24	-12.8	-11.1
5th	-114.7	3.9	139.2	5.3	2.1	-134.3	18	128.4	8.9	57.7
6th	5.5	2.8	-16.5	-9	-8.9	-7.1	21.5	4.3	15.3	-4
7th	-1.2	-15.2	13.7	31.8	-15.5	4.8	14.6	37.7	4.4	22.6
8th	-8.7	15.6	-33.2	53.9	2.5	13.8	-27.1	42.4	-26	40.6
										23.5
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Blade 4, r/R=0.400	Blade 4, r/R=0.400	Blade 4, r/R=0.400	Pitch Link, lb
14/19	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 4, r/R=0.400	Blade 4, r/R=0.400	Blade 1
MEAN	-1691.7	-501	-1065.5	-5524.1	-563	-109.4				
RMS	1314.2	327.8	697.7	2128.2	292	50.7				
1/2 P-P	2672	534.7	1405	3825	480.9	90.9				
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	1586.1	-600.3	-231.5	352.9	-247.1	-173.5	255.2	2804.3	-300.9	-230.2
2nd	133.3	99.8	-49.3	175.5	175.7	889.2	-323.5	-948.3	64.9	-142.7
3rd	-104.2	-173.3	15.5	39.5	-11.4	-166.8	144.8	-8.7	33	-15.1
4th	-396.3	-219.8	13	35.7	-45.2	-41	35.9	-4	7.5	28.1
5th	19.6	-364.2	-1	2.5	133.7	-11.8	-151.1	-18.8	-1.4	1.1
6th	-39.8	-41.9	4	2.2	4.2	0.1	-13.1	-10.5	-4.5	-0.6
7th	-7.7	-29.1	0.1	-5.6	6.9	16.1	0.2	17.6	-3.1	-0.4
8th	8.8	-13	-1.1	-0.7	-8.4	14.4	-22.3	44.8	-0.1	-0.5
										-2.2

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
15/ 8		63.7	280.7	460.2	375.2	431.8	431.8	751.5	751.5	1308.3	1308.3	-47.6	754.9
MEAN	-408.8												
RMS	671.4	391.6	236.9	355									
1/2 P-P	1313.3	745.7	444.3	658.9									
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	188.7	-79.2	130.1	-126.2	171.8	-248.6	224.5	-379	272.5	-445.8	569.9	-751.	
2nd	-223.8	-882.4	-112	-503	-47.4	-90	-7.3	167.8	-0.7	254.9	-136.4	446.	
3rd	-69.1	28.3	-31.6	9	6.3	-15.5	45.9	-36.8	67.9	-39.6	100	131..	
4th	-30.7	-29.6	-5.4	-14.2	18.4	9.1	32.8	21.8	37.4	25	-8.5	15.7	
5th	-46.8	66.3	-7.9	23.1	48.8	-27.9	90.9	-77.2	98.8	-95.4	-38.8	11.	
6th	6.6	-6.7	7	-0.7	6.7	7.8	3.7	14	4.1	11	-18	-8.	
7th	20.6	-5.2	5.6	-3.1	-19	-1.7	-42.2	0.1	-46.1	2.1	40.2	27.7	
8th	1.6	17.4	6.5	4.8	14	-13.1	15.3	-26.6	8.9	-29.6	-23.7	38.	
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725		Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Chord Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400		
15/ 8													
MEAN	-450.3	-676	-631.9	-5981	-2510.8	-504.6							
RMS	724.8	579.2	343.6	2852.8	1143.8	296.8							
1/2 P-P	1232.8	1075.8	746.9	4964.8	2245.3	484.7							
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	470.2	-740.6	262.9	-570.2	-68.5	-185.3	-379.1	614.1	-1355.6	657	235.3	-298.1	
2nd	-127	336.1	-103.7	198.8	-92.1	8.4	374.6	1084.6	184.1	75.8	-78	154.2	
3rd	74.1	238.5	93.4	270.4	109.6	194.5	-13.2	-132.5	105.5	120.7	-17.2	-26.3	
4th	-139.7	21.9	-200.2	49	-174.4	83.7	30.3	10.5	-118.7	-253.3	2.5	28.8	
5th	-176.6	165	-201	189.8	-161.8	137.5	55.1	-95.1	-204.7	154.1	-0.8	11.	
6th	5.2	-12.8	57.6	-3.6	79.6	1.4	-4.6	36.6	10.1	-64.7	2.7	2.7	
7th	5.8	-15.1	-31.6	-24	-22.9	-5.4	26	-14.4	-33.7	-1.6	-2.4	4.3	
8th	14.1	-6.7	3.5	-74.9	-19.8	-80.6	1.7	63	-13.2	-79.4	0.2	-1.7	

RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	-616.8	-3697.2	-560.1	-4054.4	-1131.9	-246.2	
RMS	950.6	3687.7	1012.8	3755.4	3134.6	2159.2	
1/2 P-P	1895	6107.5	2042.4	6101.3	5017.3	3631.5	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	SINE
1st	382.2	915.8	-771.4	-4983.7	-1029.5	203.7	-761.4
2nd	253.5	850.4	-412	-1193.5	-245.5	-923.1	1242.8
3rd	26.5	18.8	-139.2	46.2	60.3	-36.1	32.1
4th	-25.6	-14.5	128	29.5	-34.3	-29.4	69.4
5th	-88.9	-62.5	87	72.8	51.6	-94.7	-31.8
6th	-2	2.2	4.9	-32.2	-2.7	-7.8	5.9
7th	-5.2	-26.8	14.8	-21.9	20.5	6.2	-27.8
8th	-2.7	27.2	14.7	69	-6.1	24.1	9.8
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Torsion, in-lb	Pitch Link, lb
	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1
MEAN	-1423.6	-510.5	-327.9	-5337.9	-574.1	-102.5	
RMS	1646.6	333.5	770	3225.4	301.2	51.9	
1/2 P-P	2950.7	543	1609.1	5390.1	491.1	92.1	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	SINE
1st	2062.4	-809.7	-247	349.2	-121.6	-547	454.3
2nd	119.6	165.2	-62.5	179.5	193.2	887.8	-299.9
3rd	-83.8	-111.9	13.5	43.9	45.7	-110.7	143.4
4th	-305.5	-354.6	15.2	28.5	-41.9	-29.5	29.1
5th	190.7	-295.6	-1.7	-1.1	95.6	45.5	-102.5
6th	-23.9	-71.1	2.5	3.3	-1.8	13	-8.7
7th	19	-2.5	2.3	-5	10.3	24	-0.6
8th	2.9	-27	0.2	-2.1	-7.2	25.4	-5.4

RUN/POINT	Flap Bending, in-lb				Flap Bending, in-lb				Flap Bending, in-lb			
	Blade 1, r/R=0.144		Blade 1, r/R=0.167		Blade 1, r/R=0.215		Blade 1, r/R=0.280		Blade 1, r/R=0.325		Blade 1, r/R=0.570	
MEAN	145.5	408.6	408.5	506.2	401.9	-41.5						
RMS	987.9	597.9	361.2	412.9	483	798.2						
1/2 P-P	2042.8	1189.4	670.4	788.3	847.7	1358.2						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	885.8	-306.7	552.6	-261.5	356.9	-323	298	-430.6	326.4	-496.9	619.6	-794.1
2nd	-497.4	-888.5	-273.6	-507.1	-104.4	-84.2	-6.2	178.5	15.4	266.7	-114.4	449
3rd	-86.5	-4.4	-41.4	-10.6	3	-18.5	47	-32.1	70.1	-33.3	116.5	163.1
4th	-31.7	-25.1	-8.4	-10.7	10.9	12	21	21.4	23.2	23.2	-15.7	9.4
5th	-62.3	91.1	-16.5	34.6	50.2	-32.9	98.2	-97.2	105.2	-120.5	-30.7	10.1
6th	7.5	-0.8	6.3	5.3	6	13.8	1.3	18.2	0.6	13.2	-16.6	-9.6
7th	23.9	8.2	8.6	2.1	-12.8	-9.6	-36.3	-18.4	-43.3	-16.9	33.7	47.4
8th	-7.4	-10.4	2.5	0.3	16.9	16.2	22.4	28	17.1	21.4	-17	-22.7
RUN/POINT	Flap Bending, in-lb				Flap Bending, in-lb				Chord Bending, in-lb			
15/ 9	Blade 1, r/R=0.725		Blade 1, r/R=0.800		Blade 1, r/R=0.900		Blade 1, r/R=0.144		Blade 1, r/R=0.570		Blade 1, r/R=0.400	
MEAN	-487.2	-736.6	-703.2	-5258.5	-2372.2	-529.5						
RMS	762	603	366.2	4711.2	1564.2	318.9						
1/2 P-P	1334.9	1149.5	897	7632	2853.5	536						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	513.1	-763.6	280	-576.8	-98.3	-172.8	-6192.1	1796.9	-1916.8	925.5	270.5	-300.3
2nd	-163.9	322.2	-178.2	180.5	-191.6	-11.3	766.1	1435.2	255.4	158.3	-85.3	172.9
3rd	115.7	245.5	129.4	259.5	124.3	174.6	10.7	-231.7	85.2	80.4	-20.4	-23.9
4th	-129.5	30.1	-176.2	52.5	-157	82.8	63.2	-2.3	-213.7	-23.2	4.3	36.2
5th	-188.8	204.8	-216.6	248.9	-173.6	179.6	17.5	-93.5	-168.6	157.1	-3.9	13
6th	15.8	-12.8	60.7	-4.2	77.7	2.6	-1	26	8.9	-52.4	3.1	2.2
7th	2.7	-13.1	-30.8	-36.2	-23.4	-17.3	18.5	31.1	-22.2	-36.5	-2.7	1.2
8th	17	6.2	16.2	3.1	-12.1	6.1	-90.5	4.9	90.8	-22.6	0.1	-0.2

RUN/POINT		Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
		Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.174	Blade 3, r/R=0.325	
MEAN	-86	-2889.4	18.6	-3737.6	-816.2	-133.9					
RMS	1450.3	5534	1479.2	5252.6	4381	2980.6					
1/2 P-P	2740.9	9083.8	2768.8	8124.6	6702.5	4808.1					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	623.7	1662.9	-1738.1	-7416.8	-1739.1	381.7	6848.6	-2352.6	5755.9	-1884.4	
2nd	524.7	858.3	-815.4	-1525.7	-522.6	-943.2	770.2	1420.8	588.4	1129.4	
3rd	-8.6	55.5	-219	35.3	83.3	10.8	40.7	241.4	42.4	174.3	
4th	-34.8	-1.8	158.8	25.2	-38.1	-36.1	51.8	27	21.9	-24.1	
5th	-120.9	-62.8	111.3	22	64.3	-127.7	29.2	62.2	38.1	19	
6th	-3.3	2.4	9.1	-26.4	-0.5	-7.5	1.3	13.4	-0.2	-1.3	
7th	9.2	-27.1	-1	12.2	24.4	-4	-3.6	21.8	-9.9	6.3	
8th	-9.8	-2.6	-81.1	9	-16.8	2.5	-77.8	-3	-69.1	0	
										6.1	
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Pitch Link, lb			
15/9	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1			
MEAN	-1353.2	-536.4	237	-4845.7	-604	-105.3					
RMS	2198.9	355	1184.6	5115.5	322.4	65					
1/2 P-P	3752.4	595.8	2344.6	8016.5	542.3	111					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	2704.6	-1357.8	-282.6	350.6	-373	-1270.5	1532.2	6871	-302	-282.1	
2nd	240.8	192	-67.9	202.9	452.9	894.9	-661.3	-1471.1	99.7	-154.5	
3rd	-24.6	-94.5	10.3	41.2	-14.9	-117.2	234.5	17.1	40.3	-21.6	
4th	-204.8	-385	15.8	33	-52.4	-25.6	34.7	5	4.7	26.5	
5th	137.9	-277.7	1.3	-5.6	116.5	42.8	-127.1	-23.8	7.4	5.1	
6th	-12.9	-72.7	2.1	1.2	-3.1	3.9	9.8	-24.8	-3.3	-2.4	
7th	-1.1	-31.7	1.8	-3.7	-2.7	24.6	18.5	25.1	-1.9	-2	
8th	33.4	1.4	1.3	0	-12.4	-0.9	-88.7	6.6	-0.4	-0.5	
										-1.8	

RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	1476.8	-2111.9	1579.2	-2701.6	105.1	74.8	
RMS	726.7	5966.4	749.4	5638.8	4799.2	3390.9	
1/2 P-P	1311	9001.5	1283.8	8353.1	7145.8	5921.4	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	488.8	120.1	-5299.6	-6300.1	-217.9	209.1	5579.8
2nd	459.3	737.3	-1223.9	-1322.8	-500.7	-858.4	1202.8
3rd	-107.7	-91.8	-196.8	-121.5	-58.3	112.6	-71.1
4th	23.7	43	118.9	42.2	27.7	31.9	59
5th	-30.2	-70	43.7	37.2	79.9	-59.4	-3.5
6th	4	-12.6	-20.4	-16.9	-5.8	1.6	37.5
7th	-4.2	-32.4	-14.8	16.2	-35.3	2.7	-24.5
8th	24.2	25.9	0.4	-6.9	3.5	9.2	14.1
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Pitch Link, lb
	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 4, r/R=0.400	Blade 1
MEAN	-1382.2	-566.4	1713.6	-3952.1	-652	-87.1	
RMS	2667.6	389.6	677.4	5623.4	356.6	42.7	
1/2 P-P	5133.7	654.7	1264.3	8483	623.3	81.3	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	2383.3	-2642.4	-378.5	336.9	-263.8	147.4	5241.4
2nd	514.3	142.7	-49.4	178.3	428.7	779.5	-1153.4
3rd	170.7	-92	72.2	52.3	76.6	11.5	197.7
4th	-404.6	-941.3	-50.2	32.8	8.7	21.9	10.2
5th	198.1	-12	-1	-17.3	71.8	53.4	-62
6th	-69.2	-19.4	9.1	5.4	2	-8.9	-5.7
7th	32.7	-56.8	-0.2	-7.8	8.9	31.2	-0.9
8th	-9.3	14.5	-2	-1.3	-0.2	11.1	-4.2

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
		Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325
MEAN	2214.1	1695.6	932.6	752.7	606.7	207.1					
RMS	882.8	511.1	282.8	391.5	482.6	883					
1/2 P-P	1563.9	867.6	577.6	706.3	865.2	1561.5					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	287.7	96.9	182	2.5	229.6	-234.2	270.3	-416.7	325.7	-510.7	645.5
2nd	-803.1	-845.9	-465.1	-486.5	-185.6	-74.8	-40.2	178.1	-5.7	261	-231.5
3rd	83	-240.2	57.4	-142.1	5	-48.6	-11.2	-1.1	12.9	22.3	-32.4
4th	8.9	21.7	8.2	8.1	-3.6	-3.1	-14.3	-18.9	-18.4	-24.7	-33.4
5th	-19.7	102.8	-0.7	44	33.1	-32.5	46.4	-104.3	41.7	-127.9	-23.9
6th	4.1	8.2	2.4	6.4	0.3	5.5	-2.5	-2.2	-1.5	-12	-29.2
7th	19.7	5.8	6.4	0.8	-14.9	-8	-37.8	-14.4	-43.4	-11.6	39.2
8th	-5.4	26.8	6.3	8.3	26.1	-17.6	33.8	-41.3	22.5	-46.5	-45.9
RUN/POINT	Flap Bending, in-lb	Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
15/11	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.400	
MEAN	-417.8	-813.5	-923	-2980.1	-2273.3						
RMS	920.3	774.8	492.6	7101	2626.8						
1/2 P-P	1513.6	1462.4	1254.8	10816.8	5530.7						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	584.3	-941	320.8	-767.9	-126.7	-305.9	-7322.7	6448	-2240.2	2434.3	430.5
2nd	-461.9	215.8	-493.4	87.5	-426.5	-56	1605.7	1668.4	701.9	111.7	-18.2
3rd	2.6	323.8	13.2	291.7	42	169	201	-258.8	-450.4	131.3	-101.9
4th	-56.8	157.5	-63.8	194.6	-69.8	172.2	110.1	-15.1	-745.8	-1116.5	-38.3
5th	-73.4	207.2	-68.3	276.3	-43.8	208.8	13.3	-96.1	-109.7	70	11.9
6th	40.7	21.7	90.8	11.2	107.2	1.7	36.6	17.7	-42	10.4	-5.8
7th	-0.3	-7.6	-9.9	-54	-1.8	-64.5	18.5	-14.9	-14.7	11.4	-1.6
8th	18.1	-23.1	19.8	-94.8	5	-109.5	-24.9	49	18.9	-62.8	-0.4

RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
15/11	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	2091.5	-853.1	2259.2	-1613.7	1055.9	427.6				
RMS	1152.6	7741.5	1182.2	6880.3	5840.3	4128				
1/2 P-P	2157.6	11656.7	2105.3	10257.3	8726.7	7117.3				
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	291.9	1160.2	-6410	-8555	-1156.5	-33.7	7158.1	-6193.5	6149	-5210
2nd	715.1	766.9	-1509.5	-1726.7	-761	-872.9	1369.7	1743.3	1076.1	1406.5
3rd	-258.2	-135.7	-293.9	-145.4	-81.7	259.5	60.7	243.4	114.5	195.3
4th	19.7	46.7	265.9	126.2	21.7	30.6	114.7	44.4	-17.4	-118.5
5th	-93.8	-32.1	54.3	29	54.5	-128.1	-70.9	81.5	-42.3	34.7
6th	-2.5	-12.5	-33.8	-44.7	7.6	0.6	-8.3	5.5	-14.7	-3
7th	2	-24.8	-63	-25.3	-20.3	-1.1	5.4	46.7	2.9	24.2
8th	0.9	26.1	-16.6	61.3	-9.8	20.8	4.2	53.4	-2.9	3.6
									58.5	-6.9
										63.9
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Pitch Link, lb
15/11	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1
MEAN	-1223.3	-577.8	2349.3	-2795.8	-2795.8	-673.8				-83.4
RMS	3284.9	410.4	981.1	7780.1	7780.1	379.3				52.2
1/2 P-P	6157.6	717.1	1822.5	11628.2	11628.2	681.1				94.5
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	2938.4	-3130	-434.3	309.9	-128.6	-841	6323	8692.7	-255.1	-423.2
2nd	600.4	204.3	-27.1	173	663	819.4	-1426.2	-1816.7	65.6	-135.9
3rd	488.9	-125	107	59.6	226.4	48	204.7	195.6	81.2	-72.3
4th	-970.5	-1120.1	-47.6	44.7	-2.5	22.2	102.7	18.7	-70.2	26.3
5th	122.4	-175.6	3.7	-2.1	118.7	16.5	-70.8	-3.7	7.4	6.8
6th	-70.2	-27.4	-3.7	7.1	1.1	-9.2	-10	-21.5	3.1	-11.5
7th	13.6	-72	-1.7	-9.9	-1.9	22.9	31.4	62.9	-7.6	-1.7
8th	-6	2.7	0.6	-2.7	-10.4	33.4	-26.9	52.7	1.3	-3.3
										-2
										1.1

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
		Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.370	Blade 1, r/R=0.400	Blade 1, r/R=0.570	Blade 1, r/R=0.570	
MEAN	-3741.7	-1985.1	-560.2	0	0	100.4	-245.2				
RMS	859.4	524	275	0	0	374.1	648.2				
1/2 P-P	1738.4	1024.6	481.4	0	0	784.7	1140.7				
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	660.9	-337	424.6	-264.1	256.6	-251.4	0	0	242.7	-335.5	
2nd	-180.8	-871	-80.7	-503.4	-7.1	-106.6	0	0	69.3	216	
3rd	-209.7	235.3	-117.6	127.1	-9.3	13.5	0	0	119.6	-93.9	
4th	-89.4	-61.5	-38.3	-34.2	16.5	8.7	0	0	66.3	48.4	
5th	0.5	81.1	6.3	27.1	20.3	-39.2	0	0	26.6	-121.2	
6th	-11.4	-17.7	-0.7	-7	10.9	8.1	0	0	20.5	-28	
7th	14.6	-14.9	5.7	-6.6	-8.8	4.5	0	0	24.9	-16.5	
8th	-30.9	-20.1	-1.8	-2	35.8	26.6	0	0	-24.7	13.7	
								0	0	57	
								57	43.6	-55.7	
									-66		
RUN/POINT	Flap Bending, in-lb	Flap Bending, in-lb	Flap Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb				
35/21	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.570				
MEAN	-329.2	-357.2	-155.3	-7372.2	-2470.7	-431.8					
RMS	605.9	503.8	321	1606.9	624.8	276.9					
1/2 P-P	1199.1	1132.5	853.8	2756.6	1549.6	448.5					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	309.2	-556	173.9	-402	-6.2	-100.7	-1918.5	-885.2	-636.7	87.6	
2nd	141	366.6	129.3	223.7	48.5	17.9	156.5	738.8	-9.2	-63.1	
3rd	280.9	76.1	309.5	136.8	261.6	114.5	-87.8	-133.7	124	102.5	
4th	-155.4	-50.7	-231.2	-28.1	-182.1	38.2	54.5	61.2	-145.3	-279	
5th	-56.2	210.8	-71.2	219.1	-85.2	150.1	35.3	-117.4	-146	263.2	
6th	-21.9	-33.6	26.6	-30.5	51.6	-36.5	32.9	27.6	-47.6	-2.6	
7th	7.8	-22.2	-17.5	9.2	-0.2	37.3	-17.3	-14.7	5.7	13	
8th	35	20	86.6	50.4	69.2	-96.1	23.5	86.8	-34	1.6	

RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174
MEAN	-3947	-5018.4	-3934.9	-5610.4	-2602.3	-882.2	
RMS	1258.5	2139.4	1386	2498	2033	1318.9	
1/2 P-P	2373.4	3705.7	2615.5	4144.2	3325.4	2261.6	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	595.2	1363.6	612.2	-2835.9	-1605.2	447.9	3289.8
2nd	250	874.6	-197.1	-749.3	-211.6	-930.7	171.7
3rd	239.4	172	-107.6	125.3	216.9	-239.1	119.2
4th	-76.4	-64.4	64.5	41.8	-91.3	-82.3	67.2
5th	-106.9	9.1	126.8	17.9	-9.9	-129.2	-19.5
6th	1.6	14.4	8.7	-26.3	-14.4	-5.1	-3.1
7th	-10.6	-22.6	-25.7	-36.2	-11.7	19.4	28.7
8th	-41.6	-9.6	-101.2	21.4	-18.5	8.1	-102.2
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Pitch Link, lb
	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 4, r/R=0.144	Blade 1
MEAN	-1465.9	-436.2	0	-6766.2	-482.1	-98.1	
RMS	986.5	329.7	0	1931.3	288	53.1	
1/2 P-P	1983.5	517	0	3226.3	477.1	90.2	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	1235	63.3	-157.4	392.5	0	0	-953.5
2nd	15	44.6	17	171.8	0	0	-137.9
3rd	-129.2	-99	13.2	67	0	0	144.6
4th	-176.4	-222.9	37	50.1	0	0	73.3
5th	130.3	-436.6	0.1	2.6	0	0	-125.7
6th	8.2	-49.5	1.6	0.6	0	0	-18.3
7th	9.3	25.2	-2.2	-2	0	0	-21.3
8th	41.6	-8.2	2.8	2.6	0	0	-90.9

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		
	Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	
MEAN	-2204.4	-1033.6	-175.5	0	209.6	-187.5			
RMS	715.4	407.2	170.8	0	364.8	649.7			
1/2 P-P	1325.2	740.2	365.8	0	714.1	1154.3			
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-428.7	-7.6	-241.6	-79.3	-12.4	-203.2	0	187.7	
2nd	-376.7	-791.2	-200.3	-454.8	-58.1	-81.8	0	52.8	
3rd	-190.1	91.9	-104.2	43.2	-10.9	-6.2	0	97.8	
4th	-79.7	-40.6	-35.2	-22.1	11.4	8.8	0	51.5	
5th	3.7	70.9	7.3	23.6	18.6	-33.9	0	14.6	
6th	-8.7	-12.7	-1.5	-3.4	7.4	10.6	0	0	
7th	12.1	-11	4.4	-4.2	-9	5.4	0	11.1	
8th	-19.3	12.7	0.6	4.7	27.1	-6	0	0	
RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
35/22	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.400	Blade 1, r/R=0.400	
MEAN	-412.1	-523.2	-388.3	-6556.8	-2337.8	-477.9			
RMS	609.4	487.5	282.2	853.3	652.5	276.6			
1/2 P-P	1136.3	983.5	714.1	1856.6	1573.1	460.4			
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	354.1	-598.2	208.8	-439.3	-15.2	-119	-670.4	-529.4	
2nd	29.9	344.8	16.4	215.9	-38.8	31.5	481.3	701	
3rd	229.3	155.7	248.7	191.5	205.8	140.6	-46.5	-132.1	
4th	-125.2	-5.7	-184.1	18.2	-149.7	61.4	74	55	
5th	-29.3	185.8	-31.5	196.3	-46	137.3	10.7	-112.8	
6th	-5.7	-21.7	42.6	-22.6	62	-26.3	19.6	7.6	
7th	7.9	-16.5	-14.8	0.8	1.1	18.8	25.4	-0.1	
8th	26.8	-0.7	54.4	-39.7	40.1	-31.6	-43.5	113.7	

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
35/22	-2382.1	-4148.4	-2326.3	-4736.4	-1780.4	-525.3
MEAN	698.4	1457.5	741.1	1688.3	1395.8	998.6
RMS	1400.3	2791.3	1527.2	3069.9	2451.1	1921
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	264.2	248.4	259.4	-1797.5	151.9	2105
2nd	441.9	769.8	-501.1	-743.2	-822.3	483.4
3rd	91.4	137.9	-119.9	88.5	165.6	-113
4th	-59.9	-30.1	107.5	2.9	-76.2	-48.6
5th	-84.7	21	101.9	-9.9	-30.5	-106.6
6th	-1.3	13.8	-8.2	-9.6	-4.4	-13.2
7th	-6.7	-20.2	22	-6.5	-14.3	13.1
8th	-29.1	12.3	-46.9	112.9	-3.7	15.3
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
35/22	-1314.2	-476.4	0	-6029.1	-537.2	-91.5
MEAN	867.6	316.8	0	1125.4	281.7	41.1
RMS	1860	517.4	0	2205.7	471.6	75.3
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	984.9	-181.5	-181	368.8	0	-590.7
2nd	116.9	32.8	0.4	165.2	0	-431.1
3rd	-81	-90.7	21.6	34.3	0	0
4th	-459	-13	35.4	38.6	0	57
5th	-5.2	-373	1.1	-0.8	0	0
6th	-17.2	-57.1	1.9	-0.1	0	-117.2
7th	-24.3	12.6	-0.2	-2.1	0	0
8th	17.5	-35.7	1.3	1.8	0	-44

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
		Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.570	Blade 1, r/R=0.570
MEAN		-797.7		-156.5		193.9		0		356	
RMS		640.6		364.4		178.8		0		387.2	
1/2 P-P		1122.4		659.5		369.4		0		706.9	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-289.3	-12.7	-160.2	-77	36.7	-217.6	0	0	21.9	-417.4	483.1
2nd	-246	-808.8	-125.3	-460.4	-45.2	-78	0	0	20.7	235.9	-735.9
3rd	-60	-17.4	-29.4	-16.1	-0.6	-20.4	0	0	48.3	-30	-97.1
4th	-38	-19.8	-11.4	-10.1	15.3	7.7	0	0	36.6	16.7	434.3
5th	-10.9	63.5	3	21.5	25.6	-28.4	0	0	35.8	-93.9	119.8
6th	-2.3	-8.7	1.6	-1.6	6.5	9	0	0	7.9	15.4	-25.9
7th	15.5	-9.8	6.1	-5.9	-10.6	-0.6	0	0	-31.6	6.7	-15.5
8th	-0.8	-0.1	2.8	0.1	6.3	-1.1	0	0	-0.6	-0.3	-8.3
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb
35/23	Blade 1, r/R=0.725		Blade 1, r/R=0.800		Blade 1, r/R=0.900		Blade 1, r/R=0.144		Blade 1, r/R=0.570		Blade 1, r/R=0.400
MEAN	-389.5		-619.2		-588.5		-5393.9		-2294.1		-516.6
RMS	688.7		543.6		296.5		1857.9		964.6		293.2
1/2 P-P	1161.6		1014.4		694.4		3417.9		2481.4		487.5
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	400.7	-738.8	225.5	-569.5	-57.3	-180.9	-2096	1148.3	-883.6	823	217
2nd	-114.6	335.9	-101.2	207.9	-87.6	26.5	471.4	901.6	151.1	-31.2	-306.4
3rd	105	221.8	126.1	242.5	130.4	160.1	-35.3	-97.6	58.2	105.6	156.1
4th	-115	38.9	-161.6	68.5	-136	93.4	48	51.4	-201.5	-282.5	-28.4
5th	-68.9	157.5	-70.5	181.3	-62.1	134.1	42.4	-73	-135.1	140	4.1
6th	4	-18.3	47.3	-18.7	70.3	-17.9	13.5	1.7	-7.1	-18.9	27
7th	7.5	-13.2	-17.7	-12.6	-5.3	-2.6	29.3	3.1	-21.5	-2.6	-0.5
8th	13	-0.8	0.7	-2.2	-20.7	-16.4	-50.6	41.9	52.6	-54.2	0.4

RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.174
MEAN	-954.9	-2970.5	-870.3	-3568.6	-737.6	-126.1
RMS	697.5	2678.3	735	2730.4	2282.2	1620.6
1/2 P-P	1352.7	4674.8	1457	4572.4	3706.8	2787.9
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	287.6	398.2	-1154.5	-3402.9	-471.7	155.9
2nd	317.5	781.1	-525	-1002.6	-295.8	-847.7
3rd	-27.1	10.5	-100	70.7	54.9	7.2
4th	-23.5	-11.4	100.3	-2.5	-38.7	-25.5
5th	-73.6	-13.6	72.6	17.9	-3.5	-102.6
6th	2.4	14.6	-19	-18	-3.7	-12.4
7th	1.9	-16.9	12.2	-11.3	-12	12.2
8th	-7.7	-6.1	-54.9	39.2	0	7.3
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Pitch Link, lb
	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1
MEAN	-1204.9	-514.9	0	-4909.5	-582.6	-85.8
RMS	1285.5	331.3	0	2214.5	297.3	44.3
1/2 P-P	2422.3	534.8	0	3872.9	486.1	82.6
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	1477.3	-872.8	-232.4	355.2	0	914
2nd	131.5	73.7	-48.3	182.6	0	-408.7
3rd	-98.3	-124.9	22.2	44.6	0	117.4
4th	-262.9	-137.3	16	27.3	0	36.3
5th	77.8	-289.8	0.6	-4.1	0	-96.8
6th	-36.2	-60.1	1.9	0.7	0	-4.9
7th	-14.7	-5.9	-0.1	-1.9	0	23.4
8th	21.4	-5.2	0.3	0.8	0	-48.6

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570		
35/24	1/2 P-P	MEAN	-550.7	-1.5	257.6	0	0	0	386.7	7.8	7.8	705.2	1159.2	
RMS	633.8	368.7	219.7	0	0	0	0	389.3	389.3	389.3	632.9	632.9	632.9	
1st	HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
2nd	254.5	-56.7	166.7	-97.4	173.4	-224.2	0	0	251	-411.4	497.8	-718.5	-718.5	
3rd	-368.9	-757.8	-199.7	-432.5	-73.5	-70	0	0	28.3	229.3	-64	423.2	423.2	
4th	-91.6	-57.9	-45	-39.2	0.6	-21	0	0	67	-7.9	128.5	174.6	174.6	
5th	-34.6	-18.8	-11	-9.6	12.3	7.5	0	0	32.3	13.6	-5.9	12.3	12.3	
6th	-16.3	39.4	1.7	12.6	28.9	-18.7	0	0	47.2	-61.7	-27.1	14.6	14.6	
7th	3.3	-20.1	4.7	-7.3	6.2	8.8	0	0	4.5	24.6	-12.5	-11.2	-11.2	
8th	10.1	-8.8	4	-6.3	-7.7	-2	0	0	-24.3	6	21.1	9.7	9.7	
9th	5.9	-1.1	4.3	2.4	1.9	5.6	0	0	-8.7	8	9.4	-2.7	-2.7	
RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.725		Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Chord Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400		
35/24	1/2 P-P	MEAN	-389.6	-637.9	-624	-4684.3	-2185.8	-2185.8	-524.4	-524.4	-524.4	296.8	296.8	296.8
RMS	665.5	518.3	283.4	2936.8	1184.8	1184.8	2312.7	2312.7	2312.7	2312.7	2312.7	497.1	497.1	497.1
1st	HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
2nd	405.1	-697.7	221	-534	-77.9	-170.6	-3628.8	1586.9	-1200.5	897.2	231.9	-296.5	-296.5	
3rd	-105.2	319.8	-110.7	197.7	-119.2	24.1	627.5	1020.9	139.4	2.1	-69.7	164.3	164.3	
4th	138.8	257.7	150.4	271	137.8	182.4	-26.1	-152	57.7	170.9	-16.2	-28.2	-28.2	
5th	-87.4	35.6	-121.7	59	-101.6	79.5	50.5	40	-609.3	-180.9	11.2	34.3	34.3	
6th	-80.9	93.6	-83.5	102.6	-67.9	74.3	35.9	-84.1	-143.5	124.8	-2.3	2.5	2.5	
7th	13.4	-31	49.5	-34.9	63.4	-27.7	2.1	33	0.8	-53.2	1.9	-2.5	-2.5	
8th	7.5	-13.9	-7.8	-13.4	1.8	-4.7	-18.4	-27.4	14.3	25.5	1.2	1.9	1.9	
	7.6	3.8	-15.6	-2.3	-34.6	1.8	-63.4	50.5	55.5	55.5	55.5	0.4	0.4	0.4

RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb
	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174
MEAN	-697.5	-2325.8	-617.3	-2922.5	-191.2	129.9
RMS	930.6	3795.6	979.9	3815	3183.7	2166.3
1/2 P-P	1766.4	6129.8	1886.5	6155.5	5061.4	3460.1
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	338	937.9	-1602.5	-4931.2	-1018.9	190.6
2nd	428.8	731.1	-678.9	-1156.3	-426.9	-800.2
3rd	-67.9	45.3	-144.2	71.4	64	35.2
4th	-18.6	-7.4	147.9	-6.9	-33.2	-36.1
5th	-48.5	-33.1	74.4	34.5	18.7	-75
6th	-3.2	18.6	-3.8	-27.5	-3.9	-17
7th	-3.4	-16.2	-24.7	-39.2	-15.8	10.5
8th	-4.4	1.1	-38.9	52	-9.7	6.6
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Pitch Link, lb
	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1
MEAN	-1069.2	-522	0	-4213.3	-590.2	-88.9
RMS	1645.3	331.8	0	3342.8	298.9	50.2
1/2 P-P	2928	547.8	0	5418.9	499.4	88.8
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	1953.7	-1014.1	-245.7	343.3	0	1403.1
2nd	149.7	155.7	-52.1	187.1	0	-574.6
3rd	-38.6	-132.7	21.2	46.5	0	158.5
4th	-600.8	72.3	23.5	28.3	0	31.6
5th	121.9	-236.4	5.2	0.8	0	-100.1
6th	-9.8	-61	3.7	0.5	0	3.1
7th	18.4	12.5	-0.5	-0.5	0	-21
8th	31.2	-15.2	1.3	0.7	0	-65.4

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325	
35/25	MEAN	229.9	483.3	456.5	0	0	0	457.3	403.6	76.9	728.4
	RMS	648.3	379.3	235.1	0	0	0	637	637	1211.2	
	1/2 P-P	1315.5	778	495.9	0						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	226.3	-98.1	148.1	-120.7	174.2	-247.4	0	0	259.2	-440.3	512.7
2nd	-431.5	-729.9	-237.4	-415.6	-88.2	-59.2	0	0	29.3	234.7	-88
3rd	6.3	-87.3	9.6	-54.2	7.3	-23.9	0	0	29.7	-2.8	38.5
4th	-9.8	-1.9	0.6	-1.3	8.9	5.2	0	0	14.2	1	-15.8
5th	-12.2	26.4	2.8	8	25.1	-12.7	0	0	37.2	-41.8	-23.5
6th	9.2	-8.5	7.8	-1.6	6.4	7.6	0	0	2.6	12.6	-10.9
7th	15.3	-8.5	8.8	-4.7	-2.8	0.7	0	0	-20.6	6.8	20.1
8th	9.4	-6.4	6.3	0.6	0.6	8.1	0	0	-12.2	12.9	18.9
RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.725		Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Chord Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570	
35/25	MEAN	-384.2	-684.1	-720.9	-4003.8	-4003.8	-4003.8	-2134	-1482.4	-539.6	
	RMS	698	549	299.5	3910.9	3910.9	3910.9	1482.4	2998.7	313.2	
	1/2 P-P	1172.4	1017.1	702.7	6582.9	6582.9	6582.9	520.2			
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	421.2	-757.4	224.2	-597.5	-101.3	-209.3	-4486.1	2838	-1432.9	1249.3	253.9
2nd	-164	293.7	-177.6	176.6	-173.8	14.9	823.6	1126.9	218.9	76.7	-79.1
3rd	44.9	289.2	56.3	298.2	69.9	194	-16.9	-168.2	-14.2	116.3	-21.2
4th	-57.8	58.5	-77.5	85.8	-71.1	94.8	51.4	34	-526.8	-504.6	2.7
5th	-64.9	58.8	-64.2	71.4	-49.1	61.5	9.1	-50.5	-110.9	10.8	7.2
6th	16.5	-18.5	48.1	-24.4	61.9	-19.4	4.2	24.3	-24.3	-29.1	2.1
7th	5.8	-11.1	-8.5	-17.2	-2.4	-14.3	-10.2	5.8	-7.3	-10.2	0.2
8th	4	3.2	-25.9	7.7	-43.5	10.7	-74.8	10.7			

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
35/25						
MEAN	101.2	-1664.7	189.5	-2294.6	375.6	338
RMS	939.2	4732.1	985.4	4684.7	3930	2667.5
1/2 P-P	1879.5	7872.9	2057.4	7826.5	6487.5	4368.3
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	403.6	895.8	-2850.7	-5826.8	-971	4913.6
2nd	487.6	705.1	-852.4	-1252.8	-501.1	-2192
3rd	-122.1	-28	-147.4	41.1	-6.6	3210.9
4th	-5.1	16.2	158.1	14.2	-27.5	-1776.6
5th	-39.5	-26.2	53.1	-1.1	5.5	398
6th	-8.1	6.4	-2.5	-30.3	-0.8	485.8
7th	-1.9	-16.6	-14.5	-6	-21.1	-71.5
8th	6.1	-2.3	-52.4	23.4	-1.4	131.1
						-55.2
						-225.6
						-381.2
						-95.7
						-31.1
						-33.8
						-23.3
						-26.2
						14.1
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
35/25						
MEAN	-986.1	-537.8	0	-3551.7	-611.7	-81.8
RMS	2008.1	343.6	0	4341.4	313.1	49.8
1/2 P-P	3498.1	555.3	0	7114.7	524.5	88.2
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	2251	-1524.1	-268	344.6	0	2684.8
2nd	240.9	209.6	-62	196.2	0	-778.2
3rd	57.7	-118.3	18.3	41.7	0	162.5
4th	-569.1	-252.7	15.9	26.4	0	23.5
5th	57.5	-188.9	-1.2	-0.6	0	-77.1
6th	-26.8	-56.3	3.5	2.4	0	2.5
7th	15.5	-14.4	-0.7	-1.1	0	-13.7
8th	32.2	-7.4	0.9	0.4	0	-70.5
						-0.4
						1.1
						-0.7
						338
						2667.5
						4368.3

RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	994.3	-1317.6	1110.9	-1928.3	732.8	438.8
RMS	707.2	5058.5	731.7	4919.6	4175.2	2939.4
1/2 P-P	1317.4	8184.4	1393.2	7804.3	6550.6	4960.5
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	336.1	223.3	-4478.7	-5300.3	-266.9	153
2nd	528.9	616.3	-1133.9	-1034.7	-59.6	-710.1
3rd	-245.9	-38.4	-163.8	-46.9	-6	219.5
4th	6	30.2	189.3	11.3	-12.6	-9.3
5th	-9.6	-40.4	25.4	20.1	16.9	-37.3
6th	-12.8	1.5	4.8	-17.3	-1.8	-5.9
7th	-4.6	-20.7	-6	-14.7	-26.3	8.1
8th	3.9	-1.1	-83.6	21.2	-6.9	4.8
MEAN	-987.6	-545.9	0	0	-3224.5	-629.9
RMS	2327.9	364.4	0	4702.1	330.5	40.4
1/2 P-P	4401.8	589.8	0	7493.6	556.3	77.4
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	2121.9	-2196.4	-295.8	360.8	0	4373.7
2nd	403.2	129.8	-62.6	202.9	0	-1128.1
3rd	116.3	-172.3	26.9	16.7	0	180.9
4th	-894.7	-412.6	3.1	37.5	0	19.5
5th	96.4	21.5	-1.4	-4	0	-48.4
6th	21.2	-20.4	5.7	2.7	0	3
7th	26.9	-20.8	0.2	-1.7	0	-6.8
8th	54.7	-11.1	1.1	0.1	0	-101.3

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb							
		Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.370	Blade 1, r/R=0.400	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570
MEAN	1642.6	1359.7	815.4	0	589.8	216.9					
RMS	694.3	400.3	212.6	0	417.4	790.3					
1/2 P.P	1419.5	807.7	380	0	727.9	1353.6					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-260.8	-25.6	-154.2	-69.4	61.3	-248.8	0	0	240	-472.2	514.8
2nd	-595.6	-678.4	-339.3	-386.5	-131.9	-44.2	0	0	16.5	239.9	-161.5
3rd	5.9	-257.8	11.7	-150.3	1.6	-42.5	0	0	20.4	50.8	11.9
4th	0.5	43.1	0.3	20.7	-6.3	-0.7	0	0	-16.1	-32.2	-20.5
5th	-23.7	8.1	-4.6	4.6	20.2	4.1	0	0	31.9	1.7	-11.4
6th	9.1	-9.5	4.8	-2.5	-1.4	7.1	0	0	-9	10.1	-14.6
7th	12.9	-6.9	6.3	-6.9	-4.5	-5.4	0	0	-25	1.5	19.5
8th	-2.3	5.8	0.3	2.4	5.4	-3.4	0	0	-1.6	-6.5	-0.8
RUN/POINT	Flap Bending, in-lb	Blade 1, r/R=0.725	Flap Bending, in-lb	Blade 1, r/R=0.800	Flap Bending, in-lb	Blade 1, r/R=0.900	Flap Bending, in-lb	Blade 1, r/R=0.144	Chord Bending, in-lb	Blade 1, r/R=0.570	Torsion, in-lb
35/27									Blade 1, r/R=0.570	Blade 1, r/R=0.400	
MEAN	-349.6	-747.5	-878	-2613.2	-2030.1						
RMS	817.9	677.7	396.3	5786.2	2252.6						
1/2 P.P	1436.7	1273.4	879.2	8780.5	4457.9						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	463.4	-840.9	248	-681	-122.6	-266.8	-5238.7	6020.3	-1737.1	2109.3	320.8
2nd	-345.3	266.4	-362.9	168.6	-308.5	33.8	1394.6	1054	448.9	105.4	-65.5
3rd	27.1	437.9	25.1	423	36.8	276.3	144.5	-223.6	-225	189.2	-39.8
4th	7.8	140	13	177.5	-2.9	154.7	105.4	16.8	-1215.3	-825.3	-32.1
5th	-59.7	-15.2	-57.2	6.4	-29.8	23.4	-2.7	3.3	-54	-157.2	-10.3
6th	44.4	-7.8	65.7	-9.2	65.7	2.5	20.8	14.9	-18.7	-11.9	-1.2
7th	8.1	-4.4	3.6	-23.8	-0.4	-28.2	-14.7	-36.8	10.1	30.7	5.2
8th	3.8	-4.6	-8.5	-21.4	-17.8	-31.3	-86.5	44.9	89.2	-51.4	1

RUN/POINT		Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		
		Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.174	Blade 3, r/R=0.174	
MEAN	35/27	1550.8	-370.4	1698.3	-1022.8	1516.3	766.2	5191.1	3599.9	6024.8	3599.9	
RMS		761.5	6432.6	775.1	6117.7	5191.1	766.2	7805.1	6024.8	3599.9	3599.9	
1/2 P-P		1308.9	9772.5	1311.8	9269	7805.1	766.2	766.2	766.2	766.2	766.2	
HARMONIC		COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st		314.5	460.5	-5651.4	-6869.7	-477	120.3	6263.5	-5668.6	5398	-4743.1	3535.3
2nd		586.6	637.2	-1348.2	-1242.4	-603.7	-711.9	1354	1227.6	1075.6	993.4	673.8
3rd		-284.7	-52.5	-249	-99.3	-7.2	274.4	-78.7	224.6	-37.8	164.7	127.8
4th		18.9	43.4	243.1	-1.4	11	16.6	55.4	-71.1	-114.8	-117	932.3
5th		-4.2	-25.2	23.3	-4.7	23	-31.8	15.3	24.8	17	27.2	58.5
6th		-14.5	0.7	-17.2	-7	13	-7.8	-9.5	32.5	-10.5	23	-22.5
7th		-3.4	-19.1	-34.1	-26.1	-17.8	5.7	32.6	27	-27.1	7.6	4.1
8th		0.6	7.1	-73.4	57.8	-8.2	5.1	-85.8	50.2	-77.3	39.7	-38.4
RUN/POINT		Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Pitch Link, lb		
		Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 4, r/R=0.400	Blade 1		
MEAN	35/27	-851.1	-552.6	0	-2317.4	-647.3	-647.3	-647.3	-647.3	-64.1	-64.1	
RMS		2837.6	381.2	0	6147	347.7	347.7	347.7	347.7	38.4	38.4	
1/2 P-P		5246.5	597.3	0	9405.5	579	579	579	579	65.8	65.8	
HARMONIC		COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st		2498.1	-2722.1	-334.2	358.5	0	0	5639.9	6367.3	-305.4	-327.3	-15.1
2nd		453.3	147.8	-63	204.7	0	0	-1265.1	-1195.4	103.6	-159.1	23.8
3rd		173.8	-204.2	35.2	41.7	0	0	224.4	143	45.9	-36.4	-10.2
4th		-1363.6	-397.4	-16.4	29.6	0	0	-55.3	-30.8	-28.7	28.6	0.6
5th		74.9	46.4	2.7	-2.7	0	0	6.3	2.2	3.8	-2.6	2.2
6th		-12.1	-32.4	6	6.9	0	0	9.2	1.3	-3.4	-4.1	1.5
7th		26.1	-41	-2.2	-0.7	0	0	0.4	-1.2	1	-1	-0.2
8th		41.2	-18	1.1	-1.3	0	0	-93.4	44	1.9	0.4	-1.1

RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.144	Flap Bending, in-lb Blade 1, r/R=0.167	Flap Bending, in-lb Blade 1, r/R=0.215	Flap Bending, in-lb Blade 1, r/R=0.280	Flap Bending, in-lb Blade 1, r/R=0.325	Flap Bending, in-lb Blade 1, r/R=0.570	Torsion, in-lb Blade 1, r/R=0.400
16/27							
MEAN	-3278.2	-1708	-445.4	159.8	151.1	-177.2	
RMS	841.2	481.3	159.9	249.3	328.4	610	
1/2 P-P	1688.6	974.7	359.4	525.2	658.6	1117	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-818.4	69.9	-474.3	-28.7	-111.7	-152	100.9
2nd	-225.8	-783.8	-112.3	-449.8	-29.9	-85	27.5
3rd	-182.8	63.8	-100.9	30.1	-12.2	-4	63
4th	-66.5	-61.5	-28.1	-30.1	9.4	15.6	38
5th	36.1	65.8	21.4	25.5	8.1	-28.2	-4.7
6th	11.2	-9.4	7.5	0.6	1.8	12.7	-3.6
7th	20.9	-3.4	9.6	2.5	-7.4	6.2	-21.5
8th	-10	-3	-0.3	2.6	14	10.4	22.7
16/27							
MEAN	-313.7	-371.9	-211.9	-6830.8	-2590.4	-447.9	
RMS	580.9	463.9	259.5	1082.3	436	275	
1/2 P-P	1106.8	1008.5	641.3	2093.9	1113.6	455.2	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	340.9	-566.8	211.1	-419.5	18.2	-120	811.9
2nd	31.4	341.1	21.5	216.3	-20.2	31.3	242.2
3rd	195	133.5	202.4	166.8	169.3	119.6	-44.5
4th	-131.6	-66	-194.1	-67.5	-164.8	-11.4	73.1
5th	25.6	167.3	39.3	174.8	0.7	111.5	-33.5
6th	9.9	-16.6	39.2	-1.3	48.6	-5.3	-7.1
7th	14.4	-6.8	-13.3	13.8	-10.7	31.3	19.5
8th	20.4	14.5	28	7.5	10.6	10.6	-70.3

RUN/POINT		Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
16/27		Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174	
MEAN	-3513	-4592.8		-3537.5		-5115.3		-2142.6		-727.4	
RMS	631.4	925.3		682.5		1199.2		982.2		608.3	
1/2 P-P	1103.9	1719.7		1337		2242.1		1849.9		1314.8	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	158.5	-55.6	819.4	-645.8	-177.3	-14.7	865.2	1166.8	701.8	996	583.2
2nd	275.6	788.4	-309.7	-640.2	-252.5	-862	279.4	739.4	202.1	564.3	116.5
3rd	74.5	154.4	-81.1	78.3	183.3	-95.5	85.1	102.9	61.8	71.4	-32.2
4th	-65	-61.6	98.1	21.8	-80.5	-82.3	70.2	20.4	11.5	-7.6	-221
5th	-86.6	24.3	89	-27.8	-33.5	-103.7	27.3	107.1	17.3	46.6	19.5
6th	-9.1	7.7	1.2	-6	-4.3	-13.1	13.3	-3.9	13.2	-6.1	-0.9
7th	-0.7	-19.6	30.6	13.8	-19	3.4	28.4	2.7	13	2	-26.3
8th	-24.3	-11.9	-71.7	-0.1	-17.1	-3.2	-71.5	-8.8	-67	-8.6	-38
											-4.8
RUN/POINT		Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
16/27		Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400	
MEAN	-1579	-455.9		-3202.5		-6297.4		-498.2		-130.6	
RMS	562.1	321		720.3		1042.7		282.2		37.8	
1/2 P-P	1294.6	522.5		1422.8		1905.5		470		71.7	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	485.6	134.7	-182.5	374.9	97.7	472.8	-1230.8	-301.9	-323.7	-178.8	24.4
2nd	47.2	6.6	8.5	162.2	214.7	809.5	-239.5	-611.2	6.3	-137.9	-10.8
3rd	-101.5	-77.8	19.3	42.4	-88.2	-232.2	101.5	-25.9	24.6	-14	-3.5
4th	-342.2	-130.5	27.6	51.4	-80.5	-74.5	81.9	53.2	30.1	39.2	2.4
5th	-14.5	-317.4	2.9	3.3	84.9	-42.5	-91.9	16.6	-3.5	1.3	-2.3
6th	-1.6	-44.3	2.9	0.6	-5.7	12.3	-11.2	-18.4	-2.8	2.1	0.9
7th	-24.8	-0.1	-1.2	-2.7	6.8	17.1	11.2	-0.6	2	1.4	-0.3
8th	26.5	5.5	0.3	2.1	-20.4	-0.6	-73	-8.4	1	1.8	-0.1

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
16/28													
MEAN	-2137.4	-991.6		-147.4		295.4		257.6		-103			
RMS	752.8	431.9		168.3		268.9		350		652.9			
1/2 P-P	1351.7	762.6		332.4		497.4		630.3		1077			
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-553	-67.6	-313.5	-10.1	-36.2	-200.1	134.1	-301.3	201.8	-362.5	472.4	-645	
2nd	-396.6	-794.9	-213	-456.2	-69.7	-82.6	21.3	145.8	49	222.1	10.1	428.1	
3rd	-134.2	70.4	-72.6	33.8	-5.7	-7.2	53.4	-40.1	84.3	-50.7	169.3	26.1	
4th	-44.3	-54.4	-15.6	-24.9	9.7	15	27.1	38.5	35.9	50.2	0	27.4	
5th	12.7	36.8	10.9	12.3	10.9	-18.8	8.5	-49.3	3.4	-57.6	-21.6	10.5	
6th	2.2	-9.6	4.7	-0.5	6.2	11.1	6.8	20	4.9	20.2	-10	-16.2	
7th	16.4	-6	8.5	-0.2	-4.6	4.2	-16.9	6.2	-24	4.3	19.5	3.1	
8th	2.8	4.7	1	4.3	-0.7	1.7	-4.1	-2.9	-2.8	-9	2.7	10.6	
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725		Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Chord Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400		
16/28													
MEAN	-355.8	-487.2	-395.3	-5625.5	-2458.7	-491.3							
RMS	613.8	469.6	233.1	711.7	485.7	282							
1/2 P-P	1058	883.2	554	1562.1	1034.8	458.2							
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	393.4	-643.5	238	-485.8	-12.3	-146	-341.3	-16.7	-414.9	361.6	200.3	-303.4	
2nd	-3.1	332.3	-24.3	209	-70	24.2	539.5	721.5	77.1	-50	-30	152.4	
3rd	179.1	117.8	193.7	146.6	172.2	98.4	-67.5	-124.4	157.5	102.8	-13.9	-32	
4th	-101.1	-41	-149	-35.1	-125	12.9	56.7	41.9	-211.6	-91.1	22	30.2	
5th	-11.4	101.8	-6.8	101.3	-21.1	68.7	2.4	-61.7	-57.4	126	-5.6	-0.1	
6th	4.9	-20.1	42.1	-16.5	55.4	-15.2	3	14.2	-1.1	-41.6	1.8	-1.8	
7th	10.6	-7.6	-10.3	5.7	-8.7	16.3	-11	-5.8	3.9	3.6	1.2	1.7	
8th	9.7	2.8	-5.6	-17.4	-19.4	-22.7	-47.4	-19	37.5	7.5	-0.4	0.7	

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
16/28						
MEAN	-2371	-3403.8	-2369.9	-3915.9	-1078.4	-245.8
RMS	694.9	1515.8	742.7	1639.8	1340.3	919.3
1/2 P-P	1316.3	2797.8	1455.5	2988.4	2407.2	1643.8
HARMONIC	COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE
1st	323.3	192.2 -184	-1877.3	-375.1	117.9	1702.7
2nd	451.2	771.6 -578.9	-790.9	-427.6	530.3	883.9
3rd	71.4	90.8 -103.1	107	127.5	104.7	111.2
4th	-39.5	-48.2 65	17.4	-52	-60	60.2
5th	-53.3	14.1 65.6	-6.5	-18.7	-65	0.6
6th	-3.2	9.2 7.3	2.2	-2.5	-8.8	-0.7
7th	-3.8	-17.9 -8.3	-15.3	-16.2	5.7	-20.1
8th	-5.1	-4.8 -55.4	-4.5	2	-7.9	-59.9
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
16/28						
MEAN	-1365.4	-495.9	-2065	-5151.2	-547.4	-132.8
RMS	748.5	325	676.9	958	286	45.1
1/2 P-P	1528.6	523.3	1150.9	1984.2	475.6	85.8
HARMONIC	COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE
1st	919.4	-309.6 -215.5	358.1	-80.7	215.4	-185.1
2nd	87.7	39.6 -16.9	175.5	388.7	812.2	-528.8
3rd	-125.2	-101.8 23.4	50.1	93.1	-168.1	139.4
4th	-208.4	-66.2 27.9	38.7	-51.3	-65.4	72.8
5th	26.7	-234.3 6.8	1.6	60.1	-20.9	-63.6
6th	-4.6	-43.6 3.5	-0.4	1.2	13	-2.2
7th	1.9	14.1 -0.9	-3	5.1	17.6	-19.5
8th	20	11.1 -0.6	1.5	-2.8	-8.3	-51.7

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
16/29	Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.570	Blade 1, r/R=0.570
MEAN	-785.2	-149.7	202.4	463.4	397.2	44.4					
RMS	566.2	333.5	199.4	293.3	365.3	656.3					
1/2 P-P	1122.6	697.9	357.4	482.8	589.4	1070.6					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-6.2	-175.8	11.5	-168.5	106.2	-238.1	186.7	-320.4	237.2	-393.7	476.1
2nd	-302.9	-677.6	-161.2	-384.7	-59.7	-58.8	7.5	142.4	26	208.9	-63.1
3rd	-83.2	-119	-40.3	-70.1	-2.5	-19.6	38.2	10.1	60.7	25.6	93.2
4th	-14.1	-24	-2.4	-10.5	5.4	9.6	11.3	18	15.7	22	-14.3
5th	-1.8	24.8	6.3	9.2	18.8	-8.6	26.7	-25	26.7	-27.8	-18.1
6th	21.2	-9.5	12.1	-2.2	-1.1	6.6	-13.4	14.9	-21	18.2	0.5
7th	10.1	0.1	7.3	0.6	1.1	0.1	-6.8	-1.2	-17.1	-2.9	8.8
8th	8.8	8.9	5.9	3	3.3	-6.8	-2.3	-13.8	-4.3	-20.2	-1.1
											24
RUN/POINT	Flap Bending, in-lb	Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
16/29	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.400	Blade 1, r/R=0.400
MEAN	-334.2	-569.1	-577.8	-4049.8	-2308.2	-521.1					
RMS	623	485.3	258.4	2335.3	1101.4	276.8					
1/2 P-P	1039.6	945.9	587.6	4329.2	2469	474					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	389.8	-644.8	219.4	-490.8	-64.1	-164.2	-2681.6	1558.9	-930	808.4	221.9
2nd	-110.2	284	-127.7	183.7	-121.1	32.3	565.6	809.5	123.7	-14.8	-275.7
3rd	99	294	102.2	301.7	98.7	205.2	-14.1	-142.7	17.6	179	-69.8
4th	-49.6	26.2	-64	46.3	-59.1	68.8	60.8	17.6	-789.9	-226.1	142.7
5th	-44.9	50	-45.4	57.9	-36.8	49.7	21.2	-53.6	-105.2	51.3	-14.8
6th	31.7	-10.4	58.9	-11.1	62.5	-3	-22	17.2	29.6	-28.8	-31
7th	5.9	-6.2	5	-11	6.6	-10.1	1.8	-25.1	-10.9	18	35.7
8th	10.2	-7.4	-15	-33.8	-32.4	-43.9	-28.3	17	-0.5	-0.5	2.2

RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	-985.6	-1902.1	-976	-2480.9	188.3	278.9
RMS	806.4	3361.8	869	3298.5	2741.2	1894.5
1/2 P-P	1512.6	6008.9	1762	5719.6	4704.1	3176.6
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	453.2	706.4	-1733.5	-4233.4	-842	260.4
2nd	348.4	644.1	-610.7	-954.8	-353.4	-736.8
3rd	-137.6	48.2	-111.6	44.9	79.1	99.2
4th	-9.8	-10.1	143.3	3.6	-24.1	-34.7
5th	-30.9	-8.9	51.2	28.5	6.2	-54.8
6th	-17.6	12.3	5.3	-13	3.4	-10.6
7th	0.7	-6.1	-4.4	-22.4	-14.1	0.3
8th	2.7	0.3	-13.3	22.4	-3.5	-2.5
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Pitch Link, lb
16/29	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1
MEAN	-1153.4	-523.4	-738.5	-3598.4	-582.6	-125.3
RMS	1498.7	312.8	630	2734.5	277.7	50.9
1/2 P-P	3024.3	523.5	1282.9	4831.4	476.4	92.6
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	1655	-956.9	-235.1	324.5	-230.5	-353.5
2nd	122.6	110.5	-56.1	166.1	285.1	678.7
3rd	0.6	-153.7	19.8	44.2	109.7	-128.6
4th	-734.5	-1.3	13	38.7	-25.4	-38.3
5th	103.8	-148.2	4.5	2.9	42.9	8.5
6th	11.5	-38.2	4.3	1.8	-20.2	11.1
7th	10.9	5.4	0.5	-3.3	-0.6	7.8
8th	14.1	7.3	0.6	0.2	3.5	3.2

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325	
16/30	MEAN	18.8	345.6	399	539	450.3	450.3	79.9	79.9	79.9	79.9
	RMS	671.7	392.3	210.9	311.8	389.5	389.5	697.5	697.5	697.5	697.5
	1/2 P-P	1266.8	771	415	528.9	625.6	625.6	1145.5	1145.5	1145.5	1145.5
HARMONIC		COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-250.3	-176.3	-137.6	-170.9	55.3	-257.9	177.9	-359.9	240.1	-428.8	510.9
2nd	-453.1	-753.3	-250.2	-429.6	-96.7	-67.7	-1.9	154.8	22.7	226.9	-86.2
3rd	-15.2	-115.3	-2.4	-68.8	1.7	-25.3	18.4	-3.3	33.2	9.2	35.4
4th	-18.7	-23.5	-3.9	-11.4	6.2	6.7	11.8	11.8	15.7	15.7	-12.2
5th	-32.3	-21.6	-6.1	-9.6	24.1	7.2	46.9	17.7	50.9	21.5	-15.5
6th	3.4	-9.5	4.2	-2.1	3.5	8.3	1.3	15.9	0.6	15.6	-7.8
7th	8.2	-6.1	4	-1.3	-6	3	-16.7	5.7	-25.5	7.2	20.4
8th	5.6	-11.7	-0.5	-3.3	-10.7	8.4	-20.2	16.6	-18.9	10.3	3.9
RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.725		Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Chord Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570	
16/30	MEAN	-354.8	-636.9	-678.2	-339.9	-2237.3	-2237.3	537.2	537.2	537.2	537.2
	RMS	667.7	519.7	281.2	3082.3	1233.7	1233.7	299.1	299.1	299.1	299.1
	1/2 P-P	1108.1	1034.1	659.7	5305.4	2478.8	2478.8	490.7	490.7	490.7	490.7
HARMONIC		COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	438.5	-703.9	248.3	-543.3	-76.4	-186.5	-2956.6	2815.4	-1095.9	1152.7	254
2nd	-182.1	266	-201.1	156.4	-188.4	5.9	888	1032.9	217.7	67.5	-80
3rd	54.7	264.1	61.6	262.3	72.5	168.9	29.5	-121.1	-13.1	130.6	-19.5
4th	-84.5	24.5	-114.5	41.5	-101.3	59.2	60	37.8	-435.8	-349.3	-3
5th	-97.4	-45.7	-112.1	-51.7	-86.6	-27.5	45.9	-11.5	-109.4	-82.5	-5.1
6th	6.5	-11	22.5	-11.4	26.9	-4.2	-8.7	10.9	23	-11.2	0.5
7th	1.9	-0.5	-11.2	6.6	-15.3	11.8	43.8	19.5	-30.1	-28.4	0.5
8th	-1.2	0.1	-32.3	12.4	-42.8	9.1	-47.1	-74.1	-74.1	-74.1	-74.1

RUN/POINT		Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
16/30		-185.2	-1210.8	-130.1	-1940.2	687.6	471.3
MEAN		751.6	4000.8	794.2	3868.8	3242.8	2238.4
RMS		1423.3	6663.4	1579.2	6536.5	5408.6	3746.9
1/2 P-P							
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	428.3	450	-2856.6	-4608.4	-584.1	262	4520.8
2nd	478.1	689.4	-915.1	-1115.5	-473.5	-773.7	844.2
3rd	-120.2	-23.8	-133.7	10.6	12.8	91.6	25
4th	-14.4	-6.2	106.8	-2	-16.7	-25.7	72.4
5th	12.4	-46.7	2	36.4	36.2	-5.4	-39.9
6th	-3.2	12	-7	-17.1	5.6	-12.6	0.8
7th	-3.9	-16.9	17.8	1.9	-14	2.7	-15.7
8th	7.9	-22.4	-61.9	-64.9	10.3	-12.7	-64.7
16/30							
MEAN	-1082.6	-541.1	84.3	-3031.9	-606.7	-115.7	
RMS	1731.8	330.2	636.8	3414.8	298.6	49.1	
1/2 P-P	3092.7	536.5	1203.8	5814.1	491.2	89	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	1821.6	-1435.1	-264.8	327.6	-220.8	-136.5	2663.5
2nd	219.7	165.9	-63.1	181	412.8	733.8	-794.3
3rd	13	-117.2	15.4	47.4	94.9	-55.6	150.3
4th	-570.5	-235.2	10.4	32.5	-23.4	-22.2	63
5th	153.3	19.6	6	4.1	11.7	38.7	-19.7
6th	4.4	-46.2	2.8	1.4	-6.9	13.1	13.5
7th	6.3	8.7	-0.1	-1.3	5.1	14.1	23
8th	21.4	34	0.4	2.2	11.3	-21.6	-48.9

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325	
16/31	MEAN	702.9	769.2	566.5	609.6	508.5	146.2	508.5	146.2	508.5	146.2
	RMS	628.9	358.3	202.7	317.2	395.5	715.4	395.5	715.4	395.5	715.4
	1/2 P-P	1160.1	664.2	375.4	579.4	688.7	1267.5	688.7	1267.5	688.7	1267.5
HARMONIC		COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-50.3	15.4	-21	-51.7	110.4	-222.7	199.4	-360.9	257.5	-434.3	519.6
2nd	-517.2	-678.2	-290.2	-386	-115.2	-51.4	-12	153.4	12.2	220.1	-127.6
3rd	22.3	-218.7	21.4	-126.4	4.8	-33.3	9.5	21.3	16.7	46.6	-14.8
4th	-26.3	-6.4	-11	-3.4	-1.9	3.4	5.7	2	9.5	0	-16.8
5th	-24.4	-15.5	-5	-4.1	18.4	12.6	33.2	24	35.3	25	-15.1
6th	17.8	-14.6	11.2	-4.5	1.3	7.6	-7.7	16.2	-9.7	14.5	11.2
7th	10.3	-5.2	8.9	-1.5	4	2.5	-3.5	4.5	-8.7	4.5	-8
8th	15.3	-1.6	5.6	-1.4	-9.4	-1.2	-23.1	-2.8	-25.9	-3.6	3.2
RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.725		Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Chord Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570	
16/31	MEAN	-337.7	-668.6	-753.6	-2384.7	-2118.4	-548.1	Blade 1, r/R=0.400	Blade 1, r/R=0.400	Blade 1, r/R=0.400	Blade 1, r/R=0.400
	RMS	702.9	568.9	325.5	4141.3	1759.8	312				
	1/2 P-P	1249.4	1165.9	723.1	6826.7	3591.3	522.4				
HARMONIC		COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	444.4	-716.6	243.2	-571.8	-100	-214.9	-4215.5	3736.1	-1410.1	1429.6	-282.7
2nd	-267.3	235.9	-288.8	137.5	-254.9	5.8	1086	1077.9	299	102.9	163.2
3rd	-0.3	350	1.7	339.9	19.1	215.9	89.6	-145.8	-169.7	194.7	-24.2
4th	-74.9	53.1	-95.5	74.2	-90.3	79.4	133.5	44.4	-1101.5	-798.7	-25.3
5th	-68.5	-56.8	-79	-56.9	-59.9	-25.7	15.9	-7.5	-61.7	-134.6	-30.4
6th	30.4	-14	50.1	-19.2	45.3	-11.5	8.8	11.8	13.1	-21	-9.8
7th	7.1	0.7	9.5	-3.2	11.7	-4.1	-1.3	5.7	6.9	-15.7	-1.5
8th	-2	-1.6	-39.3	-16	-48.9	-21.1	-14.3	-59	20.2	56.5	-1.6

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
16/31						
MEAN	505.7	-272.2	586	-1046.9	1473.5	811.8
RMS	781.6	5037.4	835.3	4805.2	4046.1	2832.8
1/2 P-P	1477.3	8182.1	1643.6	7517.1	6207.2	4668.1
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	248.4	660.3	-3675.1	-5858.7	-749.4	76.6
2nd	535.2	605.4	-1093.4	-1166.4	-544.4	-684.1
3rd	-234.1	-50.2	-167	-44.5	-11.6	224.4
4th	-27.2	9.6	205.4	58.6	-32.1	-17.3
5th	-0.4	-37.6	23.7	9.2	25.8	-23.3
6th	-15.8	4.2	-3.4	-17.8	13.1	-2.6
7th	0.2	-11.1	-31.8	1.3	-8.9	1.5
8th	16	-2.5	-21.9	-45.8	11.6	-5.5
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
16/31						
MEAN	-914.3	-552.7	761	-2066.7	-624.1	-107.8
RMS	2271.6	342.2	640.7	4477.8	310.6	48.5
1/2 P-P	4170.5	556.5	1257.3	7139.8	515.2	87.2
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	2187.8	-1847.5	-293.1	323.7	-62	-350.8
2nd	311.9	143.3	-64.9	187.9	463.6	645.6
3rd	130.5	-124.3	20.6	41.5	219.3	-35.4
4th	-1267.6	-516.5	-2.5	37.2	-37.9	-14.5
5th	64.6	-3.4	2.3	8.7	3.8	28.8
6th	14.2	-29.9	2.9	3.4	-13.7	8.1
7th	20	-13.5	-2.7	-3.2	-0.1	12.6
8th	-1.1	23.3	-0.6	2.1	9.7	-8.7

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
4/1/19													
MEAN	3169.5	2327.7	1245.7	0	0	0	0	0	0	768.4	421.5		
RMS	476.4	278	197.4	0	0	0	0	0	0	315.6	553.5		
1/2 P-P	843	482.1	373	0	0	0	0	0	0	677.8	1112.9		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	128.7	-330.4	70.8	-213.8	108.4	-232.1	0	0	105.6	-339.6	71.3	-600.	
2nd	-339.5	-130.4	-193.9	-75.9	-74.4	2.8	0	0	-22.7	67.8	-148.6	92.	
3rd	365.2	-206.1	208.2	-115.5	20.7	-32.6	0	0	-174	61.2	-434.3	156.	
4th	49.4	36.4	29.5	6.9	12.2	-33.9	0	0	-30.7	-62.5	-43	-11.	
5th	24.1	-107.5	11.5	-41.6	-12.1	36.9	0	0	-45.6	139	9.4	1.	
6th	28.5	-0.6	12.6	-1.1	-8.3	-2.7	0	0	-36.7	-0.6	22.5	13.4	
7th	-11.9	-4.4	-1.7	-4.5	10.9	-2.3	0	0	14.7	3	-15	-5.4	
8th	-2.9	-42.9	-10.2	-14.1	-22.6	28.6	0	0	-22.9	62.5	55.8	-66.	
RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.725		Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Chord Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400	
4/1/19													
MEAN	-220.8	-753.7	-1054.9	-2222.6	-2062.4	-2222.6	-2062.4	-2222.6	-2062.4	-2062.4	-470.3		
RMS	653.9	694.6	500.4	7736	2641.1	7736	2641.1	7736	2641.1	2641.1	211.8		
1/2 P-P	1284.7	1437.4	1143.6	11332.6	5229.8	11332.6	5229.8	11332.6	5229.8	5229.8	361.1		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	36.2	-578.4	89.1	-442.9	-36.4	-163	-759.8.1	771.7	-1478.1	2332.5	224.8	-159.1	
2nd	-479.7	-13.1	-648.7	-50.3	-483.5	-18.2	959.2	619.5	452.7	-21.6	-29.8	83.4	
3rd	-353.8	278.3	-343.8	227.5	-350.7	97.4	330.8	54.7	-540	-270.2	7.4	27.8	
4th	-2.2	39	102.1	115	129.3	79.5	-33.5	103.9	746.4	-2201.9	37.7	50.8	
5th	111.1	-254.5	104.3	-343.1	149.6	-186.2	95.3	117.6	-176.6	-406.9	25.4	-8.1	
6th	56.4	8.2	28.7	-3.4	-45.4	-28.7	-42.9	4.9	29.4	24.7	9.7	-4.8	
7th	-3.9	-13.5	3	12.5	-20.5	-10.1	18.4	-43.5	18	54	-5.8	0.2	
8th	-30.3	17.1	-43.4	85	-10.3	120.6	-194.1	-206	217	211.4	-3.9		

RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	3090.6	-135.2	3260	-816.8	1776.5	784.9	
RMS	718.7	7825.3	619	7201.7	6104.5	4025.9	
1/2 P-P	1402.4	11533	1195.2	10597.5	9104.1	6848.4	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	SINE
1st	476.2	618.7	-7096	-8387.9	-517.3	324.2	6943.6
2nd	365.5	99.8	-928	-779.3	-377	-144.5	960.7
3rd	-242.6	-427.3	25.4	-345.8	-392.9	228.2	-216.1
4th	50	56.4	4.2	255	62.7	41.3	116.4
5th	164.3	-1.4	-105.6	61	-2.5	120.9	-162.8
6th	-26.7	3.2	8.8	22.4	26	-0.3	-8.7
7th	2.5	13	-22	-39.4	11.7	0.3	5.7
8th	-3.7	-56.5	-194.7	-169.6	-2.8	-40.9	-217.5
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Pitch Link, lb
	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1
MEAN	-897.5	-476.9	0	-2083.5	-582.3	-44.5	
RMS	3135	222.3	0	7939.8	211.4	14.7	
1/2 P-P	5759.9	361.8	0	11814.7	348.6	28.1	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	SINE
1st	2219.6	-3102.7	-231.1	174.7	0	7274.1	8460.5
2nd	444.8	110.8	-18.2	100.6	0	-910.2	-735.3
3rd	558	292.8	0.7	-23.1	0	-100.2	308.4
4th	157.5	-2011.4	29.3	49.5	0	76.3	-0.9
5th	321.6	509.9	-18.5	6	0	107.1	-31.3
6th	7.5	79.6	2.5	-4.3	0	0	-1.8
7th	-36.2	-22.2	4.9	-0.1	0	40	15.3
8th	90.7	62.2	-2.3	7.6	0	0	-176.9

RUN/POINT 41/20	Flap Bending, in-lb Blade 1, r/R=0.144	Flap Bending, in-lb Blade 1, r/R=0.167				Flap Bending, in-lb Blade 1, r/R=0.215				Flap Bending, in-lb Blade 1, r/R=0.280				Flap Bending, in-lb Blade 1, r/R=0.325				Flap Bending, in-lb Blade 1, r/R=0.570			
		SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE		
MEAN	-211.2	226.2		354.7		0		433.2		37.2											
RMS	788.6	458.6		240.9		0		393.9		697.5											
1/2 P-P	1517	910.6		555.6		0		685.7		1138.5											
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE		
1st	257.3	-40.9	168.7	-86	179.7	-222.9	0	0	256.4	-419.9	492.2	-733.5									
2nd	-731.3	-743.9	-413	-427.6	-139.7	-65.7	0	0	71.7	227	66.4	393.4									
3rd	-0.9	-105.7	3.7	-63.3	1.1	-25.5	0	0	20.3	3.4	42.2	163									
4th	-30.7	-13	-10.2	-7.9	8.3	1.5	0	0	21.6	-2.1	-14.2	-7.3									
5th	-32.5	20.7	-6.4	5.4	27.3	-12.1	0	0	51.3	-39.3	-23.4	7.1									
6th	2.4	-18.5	3	-6.6	1	8.6	0	0	-4.4	21.3	-4.2	-9.7									
7th	5.3	-6.4	2.7	-0.4	-3.3	7.7	0	0	-16.8	12.8	16.1	-7.7									
8th	-2.4	-2.4	1.9	0.4	6.9	3.9	0	0	0.2	3.5	-2.4	-0.8									
RUN/POINT 41/20	Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800				Flap Bending, in-lb Blade 1, r/R=0.900				Chord Bending, in-lb Blade 1, r/R=0.144				Chord Bending, in-lb Blade 1, r/R=0.570				Torsion, in-lb Blade 1, r/R=0.400			
MEAN	-380.1	-632.7		-649.2		-3433.4		-1969.6		-540.5											
RMS	636.6	469.8		255.3		3450.2		1286.9		295.9											
1/2 P-P	1049	997.2		631		6200		2585.3		510.6											
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE		
1st	399.9	-713.1	216.8	-530.1	-88.2	-153.4	-3975.8	2200.4	-1270	1016.6	236.8	-290.7									
2nd	-36	252	-105	135.6	-179.3	-9.1	1101.3	1175.1	178	88.6	-44.9	169.9									
3rd	81.7	195.2	94.4	174.2	91	91.1	-26.4	-105	21.2	44.7	-31.1	-29.2									
4th	-63.4	40.5	-73.7	57.7	-60.8	61.6	105.4	57.5	-609.6	-315.9	14.9	30.7									
5th	-95.3	60.3	-100.9	70.5	-73	48.9	40.4	-70.6	-113.8	119.7	-1.8	1.9									
6th	16.9	-17.5	45.4	-19.9	56.1	-15.5	14.7	23	12.2	-18.8	3.7	-3.5									
7th	9.8	-3.3	6.8	14.3	14.9	23.8	13.5	14.8	6	-8.1	-1.7	4.1									
8th	8.6	4.2	-1.4	0.6	-11.3	3.5	-26.8	-39.2	39.6	36.6	0.8	1.4									

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RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
MEAN	-353.5	-1233.4	-282.8	-1816.6	764.9	628.1	
RMS	968.4	4216.9	1031.1	4185.7	3504.3	2365.2	
1/2 P-P	1969.6	7344.9	2145.2	7454.2	6101.4	4059.7	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	284.9	829.1	-2300.2	-5213	-952.4	154.4	5268.7
2nd	757.2	674.8	-1115.9	-1191.3	-752	-733.8	1069
3rd	-125.1	-39.4	-156.8	46.8	-5	121.9	80.3
4th	-9.4	8.9	121.3	11.6	-7.7	-1.4	65.3
5th	-21.2	-35.2	54.8	5.3	30.4	-51.3	-23.3
6th	-11.1	16	-12.7	-29.7	15.5	-15.9	-9.9
7th	-3.6	-7.4	-17.6	11.4	-3.3	6.1	-26.4
8th	6.9	-9	-38.4	-25.8	12.6	-3.7	-38.9
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1	
MEAN	-787.2	-542.8	0	-3124.6	-614	-121.4	
RMS	1776	329.5	0	3778.9	296.2	39.2	
1/2 P-P	3327.2	552.5	0	6708.1	500.8	66.3	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	2040.5	-1208.8	-248.2	336.9	0	2097.4	4627
2nd	233.4	198.7	-35.7	189.9	0	-968	-1134.7
3rd	10.7	-76.9	35.2	41.1	0	154.3	0.7
4th	-609	-137.3	25.9	26.8	0	61.4	23.5
5th	87.7	-220	4.8	1.7	0	-85.8	-29.3
6th	-7.8	-71.8	1.8	-2.9	0	15.7	-18.8
7th	-6	-25.7	-1.9	-2.6	0	6.8	32.9
8th	1.3	14.6	0.3	0	0	-30.8	-34.9

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
		Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.370	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570
MEAN	560.9	710.2		563.5	0		528.5		156.4		
RMS	606.5	347.5		194.6	0		375.6		681.2		
1/2 P-P	1225.6	680.9		396.5	0		699.5		1231.7		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-109.5	-40.2	-57	-77.2	87.2	-218.4	0	0	230.7	-402.9	474.2
2nd	-479.5	-643.1	-267.7	-365.5	-102.7	-44.4	0	0	20.6	218.9	-91.5
3rd	6.7	-141.2	10	-83.7	4.9	-27.6	0	0	21.6	15.5	14
4th	-20.1	-0.3	-6.1	-0.1	6.5	6.4	0	0	12.8	1.3	-18.4
5th	-39.5	-52.4	-7.8	-18.5	28.9	28.4	0	0	61.6	79.3	-13.7
6th	22.2	-19.7	13.3	-4.6	0.4	13	0	0	-15.2	27.9	-4
7th	17.1	-10.6	11.4	-5.8	1.3	-0.2	0	0	-18.4	7.1	12
8th	10.3	1.2	3.4	-0.6	-5.4	-4.8	0	0	-19.2	-7.2	17.1
											18.7
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb
		Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.400	
MEAN	-326.5		-649		-747		-2597.3		-1940		-546.5
RMS	685.2		556.1		311.7		4012.1		1582.8		307
1/2 P-P	1234.8		1206.3		746.6		6606.9		3517.8		513.8
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	403.3	-710.3	216.5	-562.5	-103.1	-204.7	-3837.9	3889	-1291.6	1454.4	264.5
2nd	-216.7	262.4	-245.3	164.1	-224.3	26.9	1042.5	944.6	233.4	51.9	-82.8
3rd	24.5	320	23.8	315.2	32.5	203.6	44.1	-174.5	-94	83.1	-15.1
4th	-52.6	49.4	-61	69.2	-60.1	74	36.2	27.7	-522.1	-438.4	6.3
5th	-110	-140	-120.5	-150.4	-80	-89.4	37.8	30.3	-121.4	-228.6	-1.6
6th	32.4	-26.2	46.4	-27.9	46.6	-15.2	-25.8	37.3	40.2	-43.5	4.8
7th	12.8	1.1	4.1	6.1	2.4	11.5	3.6	-25.1	7.3	20.7	0.3
8th	-2.3	-4.1	-32.6	-16.6	-44.6	-15.5	-49.5	-17.6	55	12.8	0.6

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
41/21	438.7	-425.8	521.9	-1091	1415.6	876.1
MEAN	732.9	4761.8	785.4	4642.4	3919.9	2695.2
RMS	1506.9	7740	1616.1	7693.4	6478	4663.7
1/2 P-P						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	290.8	524	-3841	-5294.5	-614.6	5245.2
2nd	506.6	613.6	-1011.6	-1121.8	-530.3	-694.9
3rd	-163	-37.2	-166	-10.9	-22.4	132.3
4th	-9.7	19.2	146.5	45.2	-23.9	-19.2
5th	38.6	-69.7	-18.6	49.3	46.5	2.1
6th	-17.4	13.5	15.2	-16.4	7.5	-13.6
7th	-2.8	-17.4	-0.3	-36.9	-21	8.1
8th	8.5	0.6	-42.2	-7.7	-4.6	-2.5
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
41/21	-709.3	-548.2	0	-2229.5	-626.1	-109.5
MEAN	2100.3	338.6	0	4330.5	308.2	33.2
RMS	4141.6	553.6	0	7325.7	515.5	58.8
1/2 P-P						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	2057.3	-1808.5	-278.3	328.5	0	3703.7
2nd	277	168.5	-65	192.1	0	-975.6
3rd	30	-145.3	11	37	0	171.7
4th	-738.4	-113.6	14.3	28.5	0	27.2
5th	238.1	129.1	1.9	0.9	0	-10.7
6th	47.4	-33.3	4.2	2	0	18
7th	30.6	12.7	-1.7	-1.4	0	-8.4
8th	37	6.8	1.2	1	0	-52.8

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
41/22													
MEAN	1823.3		1492.7		879.6		0		639.2		305		
RMS	752.1		433.4		204.6		0		409.7		771.7		
1/2 P-P	1666		955.8		350.8		0		711.2		1366.1		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-425.6	-41.4	-248.3	-71	29.7	-243	0	0	247.3	-453.2	505.6	-786.3	
2nd	-555.1	-684.5	-314.3	-390.7	-125.8	-45.9	0	0	7.6	229.3	-168.3	335.7	
3rd	72.4	-378.7	50.7	-216.3	5.8	-50.1	0	0	-5.8	99	-35.8	422.6	
4th	-1.8	33.4	-6.7	16.7	-21	-0.7	0	0	-34.4	-22.8	-18.6	-22.1	
5th	151.1	14.7	9.4	10	3.9	1	0	0	-21.5	-6.2	-8.9	10.5	
6th	15.8	-2	6	0.7	-7.7	2.2	0	0	-23.2	-0.9	-2.7	-1.3	
7th	4.3	0.9	5.9	0.7	7.4	1.6	0	0	-3.1	1.5	-0.1	-2.9	
8th	0.4	-0.3	-1.5	0.7	-4	1.5	0	0	-10.3	-0.3	16.7	5.3	
RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.725		Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Chord Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400	
41/22													
MEAN	-275.9		-684.8		-871.8		-1043.7		-1805.4		-561.6		
RMS	804.2		676.7		397		6261.1		2698.2		347.5		
1/2 P-P	1397.6		1225.7		910.6		9225.1		5835.1		559.3		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	455.5	-803.6	249.4	-659.4	-118.5	-271	-4747.3	7256	-1556.2	2388.6	323.9	-298.2	
2nd	4	-361.3	224.3	-386.6	127.1	-320.8	3.6	1364	1017.9	460.3	73.7	185.9	
3rd	18.2	481.5	26.4	449.9	43.6	279.8	153.1	-218.4	-266.6	207.7	-49.5	-36	
4th	26.1	119.6	44.6	159.6	23.9	143.3	207.7	31	-2172	-1068.5	-13.4	19.4	
5th	4	12.9	63.5	35.4	57.9	41.3	-33.4	-20.1	30.4	-28.9	-1	-18.8	
6th	48	12.6	57.3	2.1	48.9	1.4	32.5	-0.5	-11.6	36	-0.1	4.7	
7th	8.3	8.7	22.2	1.2	20.6	-10.9	-14.4	-42.7	4.6	44.6	6.2	7	
8th	-4.9	-0.3	-3.9	-33.9	-15.6	-62.3	-14.9	-15.6	-14.9	62.9	-0.9	-0.9	-0.9

RUN/POINT		Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb
4/1/22	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	1737.2	1073.7	1848.3	485	2809.2	1457.5	
RMS	718.2	6722.7	748.4	6378.8	5429.7	3844.8	
1/2 P-P	1379.4	10195.3	1340.3	9458.5	8112	6903.9	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	304.6	231.8	-6871.1	-6289.8	-288.4	113.4	5749.7
2nd	546.2	617.8	-1363.5	-1175.7	-575.6	-716.5	1418.7
3rd	-415.5	-100.7	-234.6	-122.3	-60.1	395.8	-76.1
4th	15.8	43.2	348.3	0.6	11.1	22	93.3
5th	-14.2	8.4	33.5	-36.7	-8	-47.6	4.3
6th	-22.9	-3.3	-26.9	16.6	18.2	1.4	29
7th	-1.9	-2.9	-36.2	2.8	-8.6	2	-28.5
8th	5.3	-10.3	-61.9	1.3	1.9	-6.9	-83.2
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Pitch Link, lb	
4/1/22	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1	
MEAN	-476.1	-559.8	0	-821.3	-657.9	-90.3	
RMS	3196.1	382.6	0	6513.1	347	24.8	
1/2 P-P	6336.5	619.9	0	9839.3	566.8	41.8	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	2306.8	-3083.1	-342.3	344.3	0	6911.3	5828.1
2nd	500.7	91.9	-76	215.6	0	-1293.3	-1099.7
3rd	285.9	-206	43.4	40	0	190.9	113.9
4th	-2196.3	-447.3	-6.4	23.5	0	112.9	-48.2
5th	-63.3	-51.9	4	16.3	0	-50.8	29.4
6th	-24.2	6.2	6.1	3.8	0	2.8	14.4
7th	11.4	-34.6	-4.3	-2.7	0	2.2	-5.5
8th	29.9	16.3	1.7	-0.2	0	0	-16.4

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
		Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.370	Blade 1, r/R=0.570	Blade 1, r/R=0.400	Torsion, in-lb	
MEAN	2584.8	1963.9	1063.4	0	0	693	323				
RMS	919.1	534.8	244.4	0	0	438.3	832.5				
1/2 P-P	1864.9	1061.1	460.6	0	0	815.1	1464.9				
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-380.4	-84.8	-222.5	-90.9	49	-263.9	0	0	260.4	-483.7	535.6
2nd	-921.1	-711.3	-533.7	-410.2	-192.3	-43.7	0	0	45.8	250	-87.6
3rd	51	-390.3	38.2	-223.9	5.5	-62.2	0	0	6.2	88.8	-7.3
4th	-12.9	61.5	-11	27.5	-18.3	-14.1	0	0	-21.6	-54.6	-7.5
5th	-18.8	28.7	0.1	15.3	24.8	-2.3	0	0	34.8	-21.7	-17.1
6th	6.4	4.1	4.1	2.4	0.6	1.8	0	0	-2.9	-6.6	-15
7th	17.4	4.6	12.9	1.1	6.9	-2.8	0	0	-13	-5.3	1.5
8th	-12.8	0.3	-3.2	-0.4	11.4	-0.1	0	0	14.3	-4.3	-18.3
RUN/POINT	Flap Bending, in-lb	Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
41/23	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.400	Blade 1, r/R=0.400	Blade 1, r/R=0.400	Blade 1, r/R=0.400	
MEAN	-294.6	-733.2	-943.6	-172	-1709.2					-582.2	
RMS	900.1	778.2	471.9	8157.7	3127.7					383.5	
1/2 P-P	1511.1	1347.6	1064.4	11796.8	6391.2					717.4	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	494.2	-923.5	270.6	-771.3	-130.3	-5757.7	9702.4	-1828.8	3017.3	395.1	-271.2
2nd	-368.2	251	-442.5	140.4	-405.9	3.1	2002.8	1186.6	616.7	101.8	32
3rd	21.7	522.4	10.8	486.1	29.8	291.3	163.3	-346.4	108.5	-40.8	-149.5
4th	12.7	193.3	30.5	251.6	15.6	215.1	195.1	80.6	-1958.4	-1608	-49.5
5th	-59.2	32.7	-58.3	71.6	-31.6	63.8	15.4	-67.6	-90.2	-50.6	-23.5
6th	33.1	13.2	45.1	-5.4	39.9	-14.3	45.9	-23.2	-49.4	49.9	-0.4
7th	13.2	5.6	37	-15.1	35.7	-26.5	-0.3	-9.8	-18.6	12.2	10.1
8th	4.2	-8	2.3	-21.5	-3.7	-32.6	-107.3	-26.7	100.6	25	8.5

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
41/23	2592.3	1899.8	2723.5	1275.3	3527.4	1739.2
MEAN	901.5	8058.2	948.4	7589.8	6463.6	4515.1
RMS	1580.7	11880.5	1643.6	11240.1	9623.7	7933.6
1/2 P-P						
HARMONIC	COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE
1st	332.5	386.3 -8870	-6725.7 -396.6	103.7 5879.3	-8642.1 5145.3	-7291 3431.5
2nd	823.7	689.4 -1946.6	-1334.5 -905.6	-781.3 2049.3	1222.1 1638.7	1010.3 1006.9
3rd	-415.9	-118.5 -280.8	-76.3 -90.7	405 39.2	222.3 85.3	180 324.4
4th	10.5	58 376	46.6 6.7	35.2 152.4	-112.3 -154.2	-192 -1531.7
5th	-5.3	-17.7 75.9	31.5 30.6	-53.4 -59.6	142.9 -31.7	100.1 98.6
6th	-9.4	-2 -58.4	21.6 10.4	-1.2 27.1	-46.5 14.9	-31.9 -11.2
7th	-0.7	-11.5 -9.1	25.2 -18	3.6 15.7	55 7.2	35.1 8.8
8th	-0.5	-7.9 -107.4	-9.1 -3.9	-3.5 -108.9	-13.6 -94.6	-12.2 -59.7
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
41/23						
MEAN	-363.6	-564.3	0	-26.9	-673.5	-79.8
RMS	3676.2	421.7	0	8430.3	380.6	26
1/2 P-P	7057.7	723.5	0	12518.1	660.9	46.6
HARMONIC	COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE
1st	2433.7	-3843 -408.7	346.4 0	0 9347.9	7015.8 -292.1	-392.4 -3.7
2nd	674.4	124.8 -3	222.4 0	0 -1865.7	-1326.2 68.3	-178.1 0.8
3rd	426.9	-203.8 66.1	105.5 0	0 262.8	185.9 96.7	-42.2 -2.6
4th	-2252.7	-609 -40.4	16.5 0	0 147.8	-69.6 -41.6	11.3 0
5th	131	-94.5 17.6	7.8 0	0 -75	-72.3 -6.7	13.7 0
6th	-41.9	18.1 5.1	2.9 0	0 -14.4	9.7 -3.9	-4.6 -0.1
7th	-2.8	-62.2 -10.5	-4.9 0	0 16.8	20 -3.7	3.4 0
8th	35.1	33.9 3.4	1.7 0	0 0	-106.1 -23.5	2.4 2

RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.144	Flap Bending, in-lb Blade 1, r/R=0.167				Flap Bending, in-lb Blade 1, r/R=0.215				Flap Bending, in-lb Blade 1, r/R=0.280				Flap Bending, in-lb Blade 1, r/R=0.325				
		SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	
MEAN	-973.4	-310.6	77.2	199.8	189.9	-304.9												
RMS	1041.9	606.8	332.2	502.5	587	994.8												
1/2 P-P	2385.2	1430.9	719.6	1064.7	1173.8	1766.6												
HARMONIC																		
1st	524.8	-88.6	344.8	-153.5	281	-301.6	318.1	-490.2	355.5	-554.5	672.4	-901.2						
2nd	-446	-1202.8	-236.9	-684.6	-75.5	-114.6	31.3	252.8	65.3	357	83.9	737.2						
3rd	-271.5	153.7	-145.2	69.4	-4.1	-14	104.8	-73.2	149.2	-85.5	375	41.3						
4th	-144.4	-39.1	-59.3	-16.9	37.1	25.7	106.3	51.2	124.7	53.4	48	45.4						
5th	-127.5	43.1	-39.9	11.2	72.7	-21.1	170.5	-57.2	195.8	-73	-14.4	50.2						
6th	-19.8	-70.4	2.8	-24.8	25.5	36.4	37.3	91.4	38.3	98.8	-6.3	-42.2						
7th	27.1	-48.4	11.1	-20.3	-16.8	14.6	-44.1	45.5	-48.6	52.3	76.3	-33.2						
8th	-33.6	14.1	7.3	3.1	64.3	-8.7	95.5	-17.3	83.2	-23.2	-100.2	5.8						
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725		Flap Bending, in-lb Blade 1, r/R=0.800				Flap Bending, in-lb Blade 1, r/R=0.900				Chord Bending, in-lb Blade 1, r/R=0.144				Chord Bending, in-lb Blade 1, r/R=0.570			
28/38																		
MEAN	-557.4	-701.8	-552.2	-7880.2	-2568.8													
RMS	917.3	778.8	510.1	3206.4	1476.8													
1/2 P-P	1705.3	1720.4	1261.3	5963.9	3356.4	594.5												
HARMONIC																		
1st	472.8	-824.9	248.5	-601.9	-81.7	-175.5	-4109.3	-1098.7	-1531.7	271.9	219.2	-368.4						
2nd	133.3	536.6	92.4	317	-22.9	37.4	463.4	1321.6	63.6	-35.6	-35.9	195.6						
3rd	418.6	187.3	452.8	214.8	357.5	145.3	-93.6	-206.1	346.8	137.9	22.5	-44.2						
4th	-244.1	-48.2	-326.2	-14.8	-224.5	57.1	42.6	-41.1	-497	852.7	41	56.7						
5th	-379.4	96.9	-496.2	82.3	-386	76.1	185.1	-97.8	-566.6	125.4	-32.4	-0.1						
6th	-46.8	-88.7	-14.8	-104.8	5.6	-77.8	14.4	103.2	-27.6	-213.4	-0.4	-13.6						
7th	-2	-22.2	-36.9	49.4	-2	64.3	33.9	-9.4	-61.6	17.8	8.5	-7.5						
8th	60.1	-9.1	96.4	-63.6	96.8	-44.6	-113.9	110.9	86	-108.8	12.6	-3.5						

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
28/38						
MEAN	-1065.4	-5355.9	-1021.8	-5928.3	-2791.2	0
RMS	1328.5	3677.3	1485.7	4064	3390.8	0
1/2 P-P	2907.6	6714.7	3243.9	7302.5	6198.5	0
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	409.1	1210.1	927.4	-4842.5	-1484.4	210.3
2nd	452.7	1228.3	-450.3	-1451.5	-473	-1309.7
3rd	140.1	221.1	-169.3	124.8	241.6	-167.9
4th	-118.8	-22.6	182.4	-30.6	-131.8	-73.4
5th	-67.3	-118.5	96.5	135.9	55.2	-110.7
6th	10.9	64.7	0.7	-110.6	-32.4	-55.4
7th	-32.7	-35.1	33.4	-69.8	-38.5	50.8
8th	-40.7	27.6	-91.4	105	-24.9	48.7
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
28/38						
MEAN	-1754.7	-479.4	-877	-7224.1	-540.7	-63.5
RMS	1961.4	390.2	1229.9	3645.1	345.7	60.8
1/2 P-P	3932.4	663.1	2844.9	6510.9	616.6	106.7
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	2389.5	-179.4	-235.1	426.4	-198.2	-961.8
2nd	138.2	143.4	-33.6	227	433.9	1263.5
3rd	-280.7	-208.7	-20.6	72.5	-187.2	-402.2
4th	-622.2	750.1	41.5	77.2	-149.8	-42.6
5th	485.5	-301	18.1	9.6	81.3	95.2
6th	40.3	-203	2.2	-3.8	26.4	65.8
7th	12.7	55.3	-4.2	5.8	49	33.7
8th	60.8	-20.6	11.8	-4.3	-30	47.2

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
14/10	14/10	RMS	RMS	RMS	RMS	RMS	RMS	RMS	RMS	RMS	RMS	RMS	RMS
MEAN	-388.5	73.8	264.9	423.5	331.3	-122.3							
RMS	1100.2	637.6	317.1	448	548.7	978.3							
1/2 P-P	2187.6	1278.9	650.8	914.8	1035.7	1701.2							
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	339.2	-61.5	227.6	-134.9	241	-302.6	289.7	-459.7	343.8	-533.9	644.7	-931.9	
2nd	-662.5	-1330.4	-363.3	-763.1	-126.5	-135	19.5	252.2	61.4	380.7	132.2	695.6	
3rd	-160.3	-56.9	-80.3	-43	-0.4	-28.2	73	-24.4	108.5	-19.3	332.4	78.2	
4th	-93.8	-47.3	-37.5	-21.2	24.1	21.5	70.8	45.4	85.3	51.5	27.5	31.6	
5th	-9	66.6	7.3	21	33.8	-38.7	51.9	-88.5	50	-104.9	7.3	40.9	
6th	-8.1	-20.4	5.4	-2.7	23.4	20	30.4	38.9	27.1	39.4	-36.1	-6.9	
7th	20.1	-17.2	6.9	-0.1	-14.2	22.4	-33.3	40.7	-35.9	39.3	26.3	-64.7	
8th	-14.6	11.7	8.1	9.5	40.4	4.9	56.2	0	47	-7.9	-48.3	44	
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Chord Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400			
14/10	14/10	MEAN	-464.8	-685.3	-612.5	-5206.4	-2420.7						
RMS	886.8	705.7	435.8	4368.5	1591								
1/2 P-P	1527.7	1479.4	1118.8	6407.8	3231.8	652.5							
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	549.1	-841.2	291.5	-645.9	-98.2	-224.3	-4475.9	573.2	-1610.6	664.7	286.6	-404.7	
2nd	0.3	509.2	-39.7	281.4	-126.7	-13.9	902.5	1605.5	165.3	70.1	-36.5	255.7	
3rd	376	247.9	427.5	261.2	364.9	153	-100.7	-183.1	285	240.4	-43.9	-29.9	
4th	-193.2	10.9	-257.2	50.7	-180.5	102.5	89.7	-16.9	-1064.6	397.5	9.2	51.7	
5th	-120.1	160.8	-168	152.7	-161.3	106.5	25.3	-144.8	-143.3	282.3	-14.1	-14.2	
6th	-7.2	-32.7	31.4	-46.4	35.6	-55	8.6	48.4	42.3	-95.3	9.1	-2	
7th	5.6	-2.8	-12.5	56.9	15.6	61.3	7.9	3.8	-27.5	15	5.4	10.4	
8th	35.8	1.8	62.3	-26.4	57.5	-9.4	-79.9	126.7	48.6	-129.3	2	4.7	

RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	-563.1	-2966.4	-477.6	-3551.3	-727.5	-131.3
RMS	1296.1	4228.8	1442.5	4261.4	3550.4	2547.1
1/2 P-P	2732.5	7738.6	3071.6	7545	6148.8	4538.8
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	374.3	1012.2	-785.1	-5583.7	-1254.9	-879.8
2nd	627.7	1308.6	-880.9	-1678.4	-652.8	4728.6
3rd	-56	140.4	-181.9	136.9	164.9	-674.3
4th	-85	-34.6	204.1	7.6	-94.5	3248.8
5th	-104.7	-14.1	145.6	24.8	-7.1	-869.9
6th	5.1	20.1	-18.2	-75.2	-8.8	533.2
7th	-22.5	-19.8	-10.2	0.3	-27.2	-105.7
8th	-26.8	26.6	-56.2	125.7	-12.3	-166.5
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Pitch Link, lb
14/10	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1
MEAN	-1292.5	-562.7	-268	-4695.1	-627	-118.7
RMS	2107	447.4	1177.4	3775.1	400.3	70.2
1/2 P-P	4194.5	750.9	2441.6	6771.1	673.7	130.4
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	2384.2	-863.7	-299.8	460.3	-79	-4964.8
2nd	166.9	205.7	-32.4	292.6	601.8	-403.5
3rd	-251.8	-249.4	36.2	62	34.4	-297.6
4th	-1253.6	317.7	20.9	66.9	-104.3	71.8
5th	72.9	-348.5	9.6	22	109	-28.9
6th	42.4	-136.9	14.5	1.2	17.6	22.5
7th	30.2	-35.9	-3.4	-12.8	32.9	-43.2
8th	11.2	-37.6	0.9	2.6	-17.9	0.8

RUN/POINT		Flap Bending, in-lb				Flap Bending, in-lb				Flap Bending, in-lb				Flap Bending, in-lb	
		Blade 1, r/R=0.144		Blade 1, r/R=0.167		Blade 1, r/R=0.215		Blade 1, r/R=0.280		Blade 1, r/R=0.325		Blade 1, r/R=0.370			
MEAN	-3726		-1998.1		-586.9		44.1		32.2		-374.2				
RMS	1103.3		629.3		258.5		413.7		517.6		948.2				
1/2 P-P	2360.3		1315.7		558.4		958.6		1130.3		1706.2				
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	49.2	134.4	63.5	-10.4	143.2	-200	236	-359.6	291.7	-426.1	485.4	-796.9			
2nd	-117.1	-1418.4	-28.1	-816.5	17.1	-172.5	66.4	222.7	88.2	358.7	283.7	778.9			
3rd	-342.2	341.9	-192.1	182.2	-15	17	120.3	-96.6	184.1	-143.9	395.9	-249.9			
4th	-125.8	-88.5	-50.3	-45.3	27.1	22.8	80.8	70.2	98.6	87.8	73.1	29.5			
5th	0.9	128.1	9.7	44.4	34.1	-63.2	50.5	-158	47	-192.4	-19.7	60.7			
6th	-8.8	-12.9	1.8	2.4	14.9	24.8	21.3	44.8	23.8	43.8	-41.1	-38			
7th	29.8	-18.8	13.7	-4.9	-11.8	10.3	-36.3	23.7	-42.1	24.4	48	-42			
8th	-22.1	21.6	5.4	11.4	47.8	1.3	71.3	-8.5	63	-20.3	-66.1	71.8			
RUN/POINT		Flap Bending, in-lb				Flap Bending, in-lb				Chord Bending, in-lb				Torsion, in-lb	
14/11		Blade 1, r/R=0.725		Blade 1, r/R=0.800		Blade 1, r/R=0.900		Blade 1, r/R=0.144		Blade 1, r/R=0.570		Blade 1, r/R=0.400			
MEAN	-389.5		-391.3		-126.4		-7068.2		-2681.8		-455.3				
RMS	882.9		746.3		516.4		1760.1		597.1		365.9				
1/2 P-P	1799.1		1680.9		1412.7		3344.5		1718.3		591.7				
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	385.3	-712	227	-517.3	19.5	-142.6	-711.8	-2036.7	-482.3	-63	186.8	-414.6			
2nd	264	608.5	246.1	371.5	122.4	38.4	28.5	1070.8	-68.4	-125.2	12.1	216.9			
3rd	485.2	69.5	533.4	129.6	434.4	92	-118.3	-197.2	313.2	150.2	20.2	-70.3			
4th	-234.3	-111.1	-328.1	-77.7	-237	14.8	98.2	74.4	-190.9	4.5	23.3	82.9			
5th	-92.5	309.6	-155.1	307.1	-175.7	206	23.6	-146.6	-225.4	272.2	4.1	-11.6			
6th	-27.1	-12.8	38.7	-25	51.5	-53	3.8	24.7	42.4	-76.7	10	3.1			
7th	-2.2	-30.9	-32.2	33.2	1.3	55.8	10.3	48.7	-58.3	-55.1	1.3	4.6			
8th	55	-1.9	78.1	-51.7	60.3	-20.9	-122.2	33.6	99.1	-40					

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
14/11						
MEAN	-3980.8	-4873.7	-3918.5	-5488.3	-2554.9	-898.9
RMS	1294.1	1919.4	1417.6	2229.2	1815.1	1102.1
1/2 P-P	2722.8	3358.3	2965.1	3651.7	2984.1	2161.7
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	127.8	899	1578.9	-1813.3	-1089.3	1955.7
2nd	144.4	1443.1	-65.2	-1097.5	-108.8	1654.3
3rd	388.8	310.1	-180.4	162.4	364.8	1673.5
4th	-124.7	-93.6	56.2	28.5	-135.4	1245.6
5th	-154.8	16.5	129.5	21.8	-29.9	717.6
6th	22.6	13.4	-9.3	-3.1	-34.4	288.5
7th	-16.1	-27.7	23.8	28.5	-28.8	-100.2
8th	-60.3	29.8	-99.5	61.1	-62.3	-70.4
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
14/11						
MEAN	-1614.4	-460.2	-3611.9	-6500.9	-498.7	-128.9
RMS	830.7	420.8	1173.7	1874.7	374.5	58.8
1/2 P-P	1831.2	703	2534.9	3387.2	708.3	110.6
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	939.8	290.9	-208.3	474.9	187.6	-422.2
2nd	-38.3	-17.1	11	245.3	118.6	-422.2
3rd	-272	-170.8	-22.5	113.1	-382	-1093.9
4th	-58.6	65.8	3	102.8	-141.9	-5.1
5th	212.2	-351.6	-7.4	18.2	153.9	-23.5
6th	-8.7	-20.7	6.4	3.4	10	-92.4
7th	8.6	17.8	-2.5	-5.4	22.3	213.4
8th	49.1	-22.9	3	4.7	-71	76.7
						-213.8
						12.4
						0.7
						-5.6
						18.1
						3.5
						-3.3
						0.5
						0.7
						-1.8

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
14/12													
MEAN	-2359.9		-1150.6		-242.8		187		138.5		-313.3		
RMS	1114.1		634.7		272.3		438.6		546		967.8		
1/2 P-P	2213.9		1317.8		554		968.4		1108.5		1723.3		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	17.4	23.2	40.2	-88.1	145.6	-259.9	248.4	-419	307.2	-486.8	556.9	-848.	
2nd	-49.8	-1426.5	-229.3	-820.4	-63.9	-162.8	46.7	239.4	80.6	375.8	246.5	763.	
3rd	-298.1	210.4	-163.4	105.1	-11.1	-2.8	108.4	-82.6	163.5	-113.4	388.7	-147.	
4th	-136.3	-88	-56.7	-43.8	29.3	23.5	90.3	66.3	108.7	80.4	55.7	34.	
5th	-6.1	112.5	5.3	35.7	30.8	-64.1	47.8	-151.7	43.4	-181	-6.5	52..	
6th	-10.1	-14.1	2	2.9	18	27.2	24.5	46.7	23.9	46.4	-42.3	-26..	
7th	19.4	-18.9	9.2	-3.6	-8.7	15.4	-27.1	29.7	-32.9	30.8	37.3	-42..	
8th	-24.1	46.2	3.5	16.4	46.8	-24.4	69.8	-56.6	59	-64	-33.7	11..	
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725		Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Chord Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400		
14/12													
MEAN	-471.5		-544.4		-346.7		-638.8		-2580.6		-503.5		
RMS	895.3		750.2		491.6		188.8		914.9		376.8		
1/2 P-P	1706.3		1556.8		1235.3		3504.3		2207.4		632.2		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	458.6	-756.1	259.7	-557.1	-23.7	-161.5	-1659.7	-1460.7	-840.3	106.6	224.2	-405.5	
2nd	165.6	593.2	130.3	355.3	12.9	25.4	435.3	1278.2	19.7	-55	-7.6	242.8	
3rd	458.4	137.1	505.6	185.3	416.5	118.8	-136.4	-184	364.1	150.1	-4.2	-48.9	
4th	-248.4	-65.2	-341.9	-26.6	-251.8	52.3	115.3	39.1	-373.9	331.4	33.8	72.1	
5th	-102.4	300.9	-163.5	307.5	-176.3	211.5	6.8	-151.7	-151.7	322.3	-4.7	-10.7	
6th	-15.3	-19.6	47.2	-31.3	58	-51.6	-4	30.6	66.8	-112.9	13.4	1.6	
7th	0.1	-21.3	-17.1	39.6	17.9	56.3	28.3	1.5	-55.9	-0.9	2	7.9	
8th	48.3	-14.9	75.8	-118.9	66.4	-102.5	-68.6	144	43.1	-148.7	0.9		

RUN/POINT		Flap Bending, in-lb Blade 2, r/R=0.144		Chord Bending, in-lb Blade 2, r/R=0.144		Flap Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.174		Chord Bending, in-lb Blade 3, r/R=0.325	
14/12													
MEAN	-2583.8		-4246.3		-2485.2		-4827.8		-1921.9		-636.8		
RMS	1258.1		2410.4		1347.9		2680.4		2200.1		1482.5		
1/2 P-P	2746.3		4469.9		2829.4		4820.2		3919.2		3095.5		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	254.7	835	1073.7	-2880.2	-995.3	7.8	3131.7	1453.4	2586.1	1258.7	1892.1	395.3	
2nd	462.4	1396.4	-437.4	-1305.8	-427.2	-1477.7	388	1404.7	266.2	1068.2	157.8	375.1	
3rd	243.5	259.3	-167	170.1	301.5	-252.5	160.1	184	103.5	107	-161.1	-140.2	
4th	-120	-83.5	112	8.5	-129.9	-104.6	87	67.9	26.8	86.5	-197.7	192.7	
5th	-148.2	23.1	162.1	-5.6	-25.4	-168.8	9.9	189.6	14.4	98.6	116.9	-273.5	
6th	24.8	16.6	-16.8	8.3	-20.2	-20.3	41.9	-2.2	36.7	-7.5	5.3	-64.5	
7th	-13.7	-19.4	29.8	-6.7	-15.6	24.5	11.7	-15.6	4.9	-11.2	-15.3	7.2	
8th	-43.9	49.5	-54.6	160.3	-35.3	30.1	-65.7	162.6	-68.1	144.2	-27.7	81.1	
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400		Flap Bending, in-lb Blade 4, r/R=0.144		Chord Bending, in-lb Blade 4, r/R=0.144		Torsion, in-lb Blade 4, r/R=0.400		Pitch Link, lb Blade 1			
14/12													
MEAN	-1494.6		-505.3		-2227.2		-5856		-557.9		-125.8		
RMS	1216.3		428.7		1156.9		2107.5		381		63.3		
1/2 P-P	2887.4		715.2		2354.4		3624.5		648.2		126.8		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	1424.2	40.2	-245	464.7	77.4	-302.2	-1617.6	2025.7	-408.6	-238.3	59.8	-58.8	
2nd	36.8	55.4	-5.2	271.6	415.2	1455.3	-375	-1297.6	20.8	-233.6	-18.6	16.6	
3rd	-330.1	-202.8	5.5	86.2	-253.5	-334.4	203.8	-120.1	56.6	-8.5	-2.7	-2.9	
4th	-284.2	255.5	24.8	92.1	-146	-93.7	106	63.6	36.4	74.4	6.1	16	
5th	129.4	-462.3	-0.5	15.9	150.3	-32.7	-164.1	-9.8	-15.1	-0.4	-0.7	-3.2	
6th	-2.1	-62.3	11.4	3.3	7.7	19.9	-35.5	-28.6	-12.3	-3.1	2.4	-0.1	
7th	5.5	10.6	-0.4	-9.7	24	20.1	1.5	-2.5	-7.7	-1.7	-1.1	0.6	
8th	34.3	-58.3	1.5	1.2	-32.8	40.2	-75.9	134.5	1.9	-0.7	-0.4	-3	

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
MEAN	-1087.2		-357.8		96.7		354.3		282.4		-159.6		
RMS	1025.5		597.2		284.6		417.6		511.3		905.5		
1/2 P-P	1979.3		1157.5		596		865.7		965.6		1704.7		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-235.8	-215	-118.9	-227	81.5	-317.8	216.4	-430.6	283.8	-490.8	573.8	-859.9	
2nd	-429.3	-1233.3	-225.5	-705.7	-80.6	-125.6	12.5	233.2	39.6	352.1	109.2	668.2	
3rd	-180.4	130	-94.1	59.7	1	-15.7	80.6	-72	117.4	-89.5	293.8	-38.4	
4th	-96.5	-59.7	-34.8	-26.2	31.1	25.3	77.4	59.4	91.6	69.5	29.5	24.5	
5th	-72.1	32.5	-17.1	7.6	54.5	-19.1	114.6	-40.1	129.6	-50.6	-1.8	34.3	
6th	-10.9	-20.8	3.6	-1.4	21.7	26.7	30.1	49.7	29.9	50.7	-29.7	-26.7	
7th	27.9	-25.4	12.2	-7.2	-14.8	15.7	-38.9	34.9	-42.8	36.4	38.7	-56	
8th	-12.7	40.8	8.9	12.3	43.7	-26.5	61.5	-56.1	50.9	-62.4	-27.3	115.1	
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725		Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Chord Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400		
MEAN	-441.1		-623		-524.9		-5785		-2562.8		-534		
RMS	845.1		704.8		452.4		2105.6		1113.7		373.3		
1/2 P-P	1546.2		1422.8		1080.8		4512.1		2551.1		631.5		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	487.8	-792.5	267.1	-606.2	-65.2	-200	-2399.9	268.2	-1129.4	531.5	258.6	-388.9	
2nd	7.4	508.5	-14.3	303.4	-72.5	22.2	667.7	1265.4	81.2	41.7	-38.3	233.4	
3rd	318.3	189.1	357.5	224.4	309.6	145.6	-122.1	-200.2	315.1	147.2	-15.8	-30.7	
4th	-220.7	-51.1	-301.2	-23.5	-228	48.9	64.9	-0.6	-252.6	313.5	17	43.6	
5th	-275.5	65.7	-364.6	50.1	-308.8	39.2	90.9	-87.7	-315.8	78	-18.2	-7.6	
6th	-34.4	-43.1	2.6	-52	19.8	-59.4	-32.1	31.5	62.2	-98.9	6.5	-1.1	
7th	1.9	-12.8	-28.7	39	-3.7	57.5	34.9	-2.4	-50.3	-3.8	1.8	9.6	
8th	35.3	-15	65	-115.6	60	-104	-30.4	133.6	-3.7	-141.8	0.7	2.2	

RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	-1274.9	-3433.3	-1182.8	-4064.3	-1225	-411.3	
RMS	1113.8	2916.9	1213.6	3086.2	2563.8	1820.1	
1/2 P-P	2334.1	5909.3	2727	6209.7	5008.1	3581.8	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	493.4	491.9	-501.8	-3677.5	-716.4	225.2	3929.6
2nd	402.1	1237.7	-629.1	-1412	-434.9	-1367.2	599.3
3rd	122.5	135.6	-142.7	157.8	168.2	-161.2	143.7
4th	-91.5	-69.5	173.3	10.3	-120.5	-100.1	85.5
5th	-57.6	-98	89.4	108.9	46	-81.9	-59.4
6th	20.7	25.3	-7.7	-27.9	-29.6	-34.4	22.7
7th	-20.5	-24.2	26	-26.2	31.2	28.3	-6
8th	-36.9	37.9	-4	138.5	-21.9	26	-12.8
					127	127	-22
						117.8	-1
						64.1	
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Pitch Link, lb	
	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1	
MEAN	-1450.3	-535.8	-1001.9	-5031	-595.6	-119.1	
RMS	1480.9	422.7	1041.4	2390.3	376.7	63.6	
1/2 P-P	3043.7	710.8	2077.6	5045.2	642	118.2	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	1755	-580.6	-276.4	447	-200.5	-102.8	114.7
2nd	100.6	188.6	-32.8	266.4	408.3	1279.6	-603.6
3rd	-367.2	-169	14.2	60.4	-140.8	-239.2	176.9
4th	-268.7	165.4	23.1	60.2	-119.7	-80.4	54.5
5th	361.8	-232.7	8.4	11.7	77.8	66.7	-108.5
6th	29.3	-134.5	8.2	0.7	11.5	19.6	5.8
7th	18.7	0.8	-0.7	-11.6	23.8	22.4	6.6
8th	13.5	-44.7	-0.2	2	-22.8	37.8	-27.5
					121.2	1.5	0.4
						-1.8	-3.3

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
14/14	Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.370	Blade 1, r/R=0.400	Blade 1, r/R=0.444	Blade 1, r/R=0.570	Blade 1, r/R=0.570	
MEAN	-586.1	-45.5	222.5	411.2	328.4	-114.6					
RMS	1076.8	625.6	308.9	434.1	532.1	960.3					
1/2 P-P	2117.8	1249.8	620.9	861.4	993.6	1689					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	214.5	-143.4	149.4	-181.2	200.3	-312.8	263.1	-447.3	319.5	-516.2	
2nd	-608.5	-1336.6	-331.5	-767.9	-118.3	-141.1	16.7	244.1	55.1	372	
3rd	-189.6	9.6	-97.4	-7	-2.3	-23.6	80.6	-44.1	119.8	-48.9	
4th	-92.5	-62.9	-35.6	-29.7	25.9	20	69.3	48.2	83	55.5	
5th	-45.5	38.4	-7.8	8.9	43.7	-28.3	83.8	-59.5	91.1	71.7	
6th	-17.6	-23	-0.6	-4.3	20.4	21.3	31.1	42	30	42.1	
7th	16.7	-18.9	3.4	-1.1	-19.6	22.5	-39.7	40.4	-41.4	39.1	
8th	-12	32.6	11.4	11.7	44.7	-19.7	60.1	-43.5	46.9	-48.9	
RUN/POINT	Flap Bending, in-lb	Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
14/14	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.400	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.400	
MEAN	-443	-659.6	-589.9	-4989.4	-2468.2	-556					
RMS	885.4	711	442	3216.6	1385	399.3					
1/2 P-P	1526.1	1462.9	1156	5991.7	2733.9	668.4					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	534.6	-843.3	289.9	-644.8	-87.7	-214.1	-4066.1	727.1	-1496	697.8	
2nd	14.9	528.3	-22.8	305.6	-106.5	3.8	855.9	1616.3	124.5	99.4	
3rd	364.1	219	409.6	236.9	352	140.5	-103.1	-177.5	372.1	255.5	
4th	-193.9	-0.7	-262.1	37.4	-193.5	96.3	91.6	36.7	-741.3	-33.4	
5th	-201.4	103.8	-271.4	93.6	-241.7	67.7	82.4	-115.6	-260.7	-34	
6th	-22.7	-28.5	18.6	-35.3	32.9	-45.9	12	52.8	25.5	-11.5	
7th	1.9	-1.2	-21.8	62.7	3.6	76.4	7.1	-6.9	-21.4	8.4	
8th	34.7	-7.8	60	-80.9	53.8	-68.8	20.2	160.2	-54.4	-163.9	

RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	-773.7	-2775.5	-641.7	-3481.5	-708	-191.4
RMS	1260	4029.9	1350.7	4055.7	3376.9	2368.9
1/2 P-P	2673.4	7148.5	2763.5	6998.5	5700.6	3979.1
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	451.3	922.7	-952.3	-5266.1	-1125.8	195.9
2nd	589.4	1298.3	-873.5	-1670.6	-578.4	-1385.6
3rd	27.7	142.9	-190.7	152.8	169.2	-33.2
4th	-80.8	-49.3	193.4	-1	-91.5	-68.4
5th	-83.7	-46.6	125.8	57.8	25.6	-104
6th	10.1	20.5	-26.1	-71.1	-3.2	-21.3
7th	-20.6	-23	-28.3	-3.2	-21.5	17.6
8th	-30.4	44.4	39.7	155.7	-11.5	33.8
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Pitch Link, lb
	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1
MEAN	-1364.7	-556.7	-441.1	-4506.1	-620.6	-121.1
RMS	1897.4	445.3	1116.8	3492.9	399.1	69.9
1/2 P-P	3518	727.4	2294.5	6235.9	666.5	132.7.
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	2226.7	-855.7	-297.3	456.4	-152.4	-500.3
2nd	136.1	231.6	-37.4	294.2	532.3	1351.4
3rd	-319.1	-192.8	34.7	68	-35.7	-222.2
4th	-934.7	248.4	24.5	65.8	-103.4	-60.9
5th	172.2	-365.9	8.3	17.1	109.3	28.6
6th	18.6	-168.5	12.1	1.5	19.1	21.5
7th	26.2	-37	-2.3	-13.4	28.3	18.4
8th	-26.4	-57	-0.2	0.9	-14.2	39.5

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
14/15													
MEAN	147.5	408.4		405.3		488.9		387.8		-61.9			
RMS	1118	644.1		291.4		434.8		540.4		985			
1/2 P-P	1974.8	1209.4		583.5		856.9		965.4		1686.2			
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-221.7	-111.6	-114.8	-159.6	102.9	-316.1	241.6	-459.4	315	-532	660.7	-943.2	
2nd	-780.5	-1315	-436.9	-753.9	-163.7	-125.7	0.4	262	48.4	389.8	100	687.4	
3rd	-143	-88.6	-69.9	-62.8	-1.7	-37.5	65.7	-31.2	97.6	-23.5	327.8	96.6	
4th	-79.2	-33.7	-31.5	-11.2	18.8	24.4	56.8	42.2	69.4	44.7	4.5	21.5	
5th	-35	58.1	-3.4	17.7	40.9	-33.5	74.3	-77.1	78.3	-91.8	13.8	28.8	
6th	-3.6	-20.1	8.3	-0.3	24.3	25.7	28.6	46.3	24.9	44.8	-36.2	-14.5	
7th	24.9	-22.1	11.6	-3	-9.4	22.2	-30	40.4	-35.1	39.2	18	-64.4	
8th	-12.7	36.9	11.1	10.1	43.4	-28.9	58.9	-59.4	44.9	-62.3	-18.8	111	
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725		Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Flap Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Chord Bending, in-lb Blade 1, r/R=0.400		
14/15													
MEAN	-445.7	-706.8		-673.8		-4514.6		-2387.9		-581.8			
RMS	915.7	736.3		455.3		3602.8		1701.2		419			
1/2 P-P	1561.9	1432		1039.8		6658.3		3685.6		666.8			
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	580.4	-879.1	310.2	-685.2	-107.5	-245.3	-3951.7	2329.6	-1595.6	1111.5	324.1	-404.9	
2nd	-85.1	509.1	-142.4	285.3	-215.4	-8.7	1300	1630.8	263.1	89	-38.8	271.7	
3rd	363.5	263.8	412.5	271.3	354.7	151.4	-80.6	-234.8	271	269.5	-50.6	-30.3	
4th	-157	20.5	-203.6	62.2	-137	111.3	99.3	-19.3	-1088.8	434.4	-2.3	44.5	
5th	-192	151.8	-255.9	162.6	-220.5	127.4	13.9	-103.9	-154.2	177.9	-24.5	-12.6	
6th	-6.7	-35.9	26.9	-43	32.2	-44.3	4.8	57.4	30	-126.9	6.9	-5.8	
7th	9.8	2.3	2	55.6	26.3	59.7	22.5	-43.6	-33.6	64.8	6.8	10.9	
8th	31.3	-15.3	59.9	-100.7	60.8	-90.2	48.1	128.6	-83.7	-125	1	3.2	

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
14/15	-17.8	-2306.6	107.8	-2902.8	-173.6	37.7
MEAN	1142.5	4331.9	1251.9	4284.3	3599.8	2622.3
RMS	2227.2	7854.8	2519.9	7439.8	6054.1	4404.7
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	396.1	450.4	-2350	-5191.3	-694.4	122.8
2nd	724.6	1276.6	-1254.5	-1690.7	-760.2	-1401.7
3rd	-96.8	109.4	-227.5	121.1	137.7	72.9
4th	-67.8	-23.1	217.5	-46.1	-73.2	-47.8
5th	-93.5	-24.1	122.9	7.9	13	-116.7
6th	5.3	17	-27.6	-45.3	-5.1	-17
7th	-16.9	-22.5	-1.1	-28.4	-29.3	19.5
8th	-23.1	40.5	54.5	127.3	-5.7	32.7
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
14/15	-1262.1	-581.7	279.1	-4060.7	-652.1	-115.7
MEAN	2190.4	466.9	1107.9	3862.5	419.5	65.7
RMS	4268.1	754.6	2053.8	7102.6	680.6	123
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	2280.3	-1410.8	-338.7	461.2	-123.9	-101.1
2nd	291.7	205.1	-33.9	312	709.2	1348.3
3rd	-239.7	-243.6	42.4	57.3	66.6	-191.5
4th	-1241.3	392.5	14.4	59.7	-93.9	-40.7
5th	65.1	-292.5	14.9	19.1	94	12.2
6th	8.2	-138.4	11.6	-1.8	8.4	21.3
7th	2.6	-19.4	-6.7	-13.8	26.6	6.5
8th	-22	-26.3	1.2	2.1	1.5	38

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb							
		Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570
MEAN	1544.7	1277.3	756.5	655.1	522.9	87.3					
RMS	1162.8	684.4	363.3	479.3	576.1	1022.5					
1/2 P-P	2235.7	1358.2	672.9	876.7	1076.1	1629.1					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	4.2	-389.3	19.6	-316.4	174.6	-396.2	275.4	-500.5	347	-564.2	718.8
2nd	-954.5	-1215.9	-548.2	-697	-209.7	-102.8	-21.1	262.5	37.9	378.3	31.8
3rd	-137.7	-255.5	-62	-155.3	3.6	-56.9	68.3	7	95.9	35.7	334.5
4th	-65.8	38.5	-29.6	27.6	7.6	19.1	41.7	16.6	51.8	9.4	22.3
5th	-145	38.1	-44.9	17.2	82.6	0	193.8	-5.4	224.3	-14.1	23.8
6th	-7.8	-39.4	8.2	-9.9	25.2	28.3	32.4	59.3	27.4	61.1	2.1
7th	21.7	-2.4	9.1	8.2	-6.4	24.6	-22.2	35.1	-26.5	30.5	-11.3
8th	-13.7	34.8	17.7	16.1	62.5	-11.2	83.7	-34	64.8	-39.3	-56.8
RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
14/16	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Torsion, in-lb	Torsion, in-lb
MEAN	-400.4	-751.6	-812.2	-2881.2	-2348.5					-655.3	
RMS	1053.1	912.6	587.9	6560.3	2705.1					439.3	
1/2 P-P	1957.8	1999.8	1325.1	10592	5417.2					816.2	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	655.4	-1007.9	348.7	-819.3	-142.9	-326.1	-6192.5	6305.8	-2178.8	2303.2	431.2
2nd	-235.8	418.9	-312.3	216.9	-352	-32.4	2005.5	1868.6	622.1	84.7	59.5
3rd	292.6	414.1	324.3	400.6	288.6	235.2	76.2	-291.4	-168.2	336	-68.3
4th	-128.5	88.5	-157.1	129.4	-103.6	159	142.9	-38	-1840.1	49.1	-143.8
5th	-490.5	24.7	-615.6	41.6	-466.9	48.3	64.8	-111.9	-334.5	-3.5	-73.9
6th	-4.8	-56.3	12.1	-46.1	19.2	-29.5	-4.5	81.3	-0.4	-169.7	-0.5
7th	16.5	23.9	18.2	68.8	26.7	74.1	-36.6	-46.2	-6.6	74	10.6
8th	29.9	1.6	95	-51.2	95.2	-45.8	14.4	143.6	-55	-144.5	6.1

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325	
MEAN	1441.4	-749.6	1618.7	-1373.5	1173.5	499.8				
RMS	1279.2	6894.7	1395.8	6188.2	5233.7	3820.4				
1/2 P-P	2423.1	10912.8	2821.2	9872.9	8010.7	6507.1				
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	660.7	678.3	-6345.7	-6921.8	-931	356.2	6019.5	-5778.8	5191.6	-4842.2
2nd	842.2	1211.8	-1804.5	-1794.8	-947.5	-1346.3	1744.7	1885.2	1368.7	1491.5
3rd	-307.3	101.4	-287.6	-49.7	126.6	283.7	85.5	206.7	106.2	129.1
4th	-61.6	43.8	296.6	55.7	-70.9	3.1	67	38.5	-203.9	74.4
5th	-43.8	-165.9	62.7	98.8	139.5	-78.5	-69.7	204.1	-15.8	138.8
6th	10.9	19.6	-31	-54.2	-11.1	-29.1	0.8	33	11.2	2.7
7th	-7.2	-13.4	-87.1	25.9	-20	11.5	3.2	38.5	-8.8	22.5
8th	-11.9	58.9	28.2	115.1	-16	52.1	44.4	113.1	30.2	115.6
										86.1
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
14/16	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400	
MEAN	-1169.6	-640.3	1705.1	-2535	-726.8	-110.8				
RMS	3213	483.3	1177.5	6964.4	435.5	60				
1/2 P-P	6162.4	835.5	2341.6	11223	794.8	116.9				
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	2671.8	-2858.2	-442.3	400	-467	-306.7	6213.5	7108.3	-325.1	-431.7
2nd	570.5	119.5	45.8	285.3	843.4	1247.1	-1833.9	-2013.1	-6.6	-231.7
3rd	135.1	-364.4	69.2	127.9	262.4	-183.5	267.3	135.1	154.2	-28
4th	-1950.4	581	-38.2	10	-85	1.8	58.6	-65.2	-52.3	-20.2
5th	373.6	-171.4	46.8	30.8	76.8	139.5	-93.2	-81.8	-34.4	56.2
6th	59.9	-144.6	4.1	-5.7	19.2	35.9	20.3	-49.9	-1.1	3.9
7th	-0.4	-81.2	-8.9	-15.2	14.8	21.3	20.7	5.8	-13.3	3.9
8th	-48.5	-27.5	4.5	6.2	-16.9	52.7	11.6	140.8	4.7	5.9
										86.1

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, r/R=0.144		Blade 1, r/R=0.167		Blade 1, r/R=0.215		Blade 1, r/R=0.280		Blade 1, r/R=0.325		
MEAN	-3427.1		-1794.5		-501.6		0		74.1		-266.6
RMS	1014		573.7		216.3		0		467.3		826.9
1/2 P-P	2061.3		1165.1		505.8		0		1010.8		1499.6
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-445.8	55	-242	-58	4.8	-218.8	0	0	228.4	-416.2	489.9
2nd	-405.9	-1192	-204.1	-686.9	-41.4	-134	0	0	107.1	321.2	-702
3rd	-238.5	262.8	-134.1	138.8	-13.2	10.1	0	0	131.1	-117.6	677.4
4th	-136.6	-50.1	-58.1	-28.5	31	16.6	0	0	109.8	60.8	-103.1
5th	75.7	108.2	39	36.4	5.7	-59.7	0	0	-53.1	-165.2	41.6
6th	-9.2	-14.4	2.8	-3.2	18.9	13.8	0	0	28.2	33	35.5
7th	20	-28.7	8.6	-10.7	-10.8	15.9	0	0	-33.3	41.7	-30.6
8th	-31.4	34.7	3.1	7.1	54.2	-28.1	0	0	74.6	-51.6	-31.6
											40
RUN/POINT	Flap Bending, in-lb			Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
35/28	Blade 1, r/R=0.725			Blade 1, r/R=0.800		Blade 1, r/R=0.900		Blade 1, r/R=0.144		Blade 1, r/R=0.570	
MEAN	-351		-388.7		-183.1		-6917.2		-2381.9		-488.4
RMS	774.5		656.6		416		1448.1		542.3		364.5
1/2 P-P	1582.4		1432		1070.2		2893.8		1267		579.4
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	352.8	-671.1	207.4	-501	7.9	-148.9	-107.7	-1608.4	-346.8	48.6	178.5
2nd	181.3	499	141.4	300.4	28.6	25.7	378	900.8	-29	-140.2	-422.2
3rd	415.5	49.1	456.2	100.1	371	66.2	-144.2	-160.9	238.9	89.1	214.7
4th	-246.3	-56.6	-336.6	-21.5	-248.9	42.8	81.8	56.8	-252.1	-12.6	-39.9
5th	76.9	270.9	53.7	275.5	-20.3	193.3	-78.3	-156.4	12	316.3	44
6th	-19.2	-24.7	32.2	-47.9	39	-67.5	28.4	18.6	-33.7	3.3	-7.4
7th	-4.4	-18.3	-16.5	50.6	13.5	59.2	6.5	-27.5	-49.8	8.3	0.2
8th	47.5	-21.1	92.3	-88.5	88.8	-62.6	-52.4	164.7	22	-173.3	6
											1.6

RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
35/28	-3598.6	-4662.9	-3620.9	-5065.8	-2131.3	-625.4
MEAN	1031.3	1582.4	1171.4	2128.1	1740.6	1037.9
RMS	2302.3	3109.3	2700.3	4217.4	3405.8	2545.4
1/2 P-P						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	238.8	312.3	1255.5	-1322.5	-640.4	15.8
2nd	445.8	1217.3	-382.2	-990.2	-440.6	-1334.5
3rd	262	205.1	-102.4	187.2	241.5	-307.2
4th	-129.7	-66.4	163.2	27.4	-151.7	-100.2
5th	-140.5	73.5	167.6	-46.4	-95.8	-156.3
6th	6.3	15.3	-14.1	-10.5	-19.6	-8.6
7th	-29	-20.6	6.1	-48.3	-24.7	30.6
8th	-49.2	53.2	-39.7	157.3	-23.2	49.8
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Pitch Link, lb
	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1
35/28	-1339.1	-491.1	0	-6247.2	-534	-105.3
MEAN	816.8	421.1	0	1613.3	372	54.3
RMS	2175.3	667.3	0	3390.8	605.2	104.8
1/2 P-P						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	859	249	-198.7	485.8	0	0
2nd	43.1	32.5	40.3	248.2	0	-414.6
3rd	-218.3	-107.3	18.5	75.6	0	0
4th	-276.9	163.4	40.4	85.4	0	58.6
5th	-28.9	-428.2	-4.3	15	0	-144.1
6th	27.2	-51.5	9.8	5.1	0	-25.3
7th	28.9	39.7	-0.2	-6.5	0	-15.2
8th	34.6	-59	0.3	2.9	0	-53

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
35/29													
MEAN	-2185.5		-1022.3		-181.1		0		0		191.6		-177.
RMS	1032.9		593.4		246.7		0		0		464.8		817.2.
1/2 P-P	1991.4		1171		564.8		0		0		916.2		1357.2
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-617.3	-85	-349.1	-146	-36.3	-275.7	0	0	0	220.5	-461.6	525.6	-727.
2nd	-531.7	-1147.6	-282.4	-659.3	-80.8	-118.1	0	0	0	90.6	326.4	98.6	640.
3rd	-206.2	78.5	-112.2	34.9	-13	-6.5	0	0	0	109.7	-55.5	318.8	4.
4th	-99.5	-41.6	-40.3	-21.7	28.4	16.1	0	0	0	84.5	45.8	18.9	36.
5th	48.5	79.8	27	24.2	9.6	-49.6	0	0	0	-28	-129.7	-18.4	36.
6th	-13.8	-15	2	-3.5	23	14.8	0	0	0	35	32.3	-28.3	-25.6
7th	13.3	-24.2	5.8	-7.7	-8.5	17.7	0	0	0	-28	41.4	42.9	-35.7
8th	-2.2	32	9.3	8	26.4	-26.9	0	0	0	20.7	-47.8	-43	53.7
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725		Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Flap Bending, in-lb Blade 1, r/R=0.900		Chord Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400
35/29													
MEAN	-379.4		-498.6		-371.7		-5837.1		-2251.7		-525.8		
RMS	756.9		621.6		401.3		1051.3		716		364		
1/2 P-P	1407.8		1242.5		970.5		2306.6		1630.1		598.7		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	390	-690.5	221.3	-515.4	-28.1	-155.7	-470.5	-448.2	-515.8	350	205.7	-405.2	
2nd	91.7	476.3	49.6	285.8	-38.1	24.8	668.9	972.5	50.1	-95.1	5.3	226.6	
3rd	381.2	157.4	417.4	186.9	342.4	116.6	-147.9	-150.8	259.4	112.3	-30.5	-20	
4th	-204.9	-6.5	-280.6	31.5	-211.9	79.5	66.9	36.2	-488.5	176.7	43.5	57.9	
5th	22.1	211.9	-5.1	216.8	-53.6	151.2	-68.3	-125.8	21.9	268.8	3.3	-4.1	
6th	-19.1	-22.1	25.7	-37.5	38.7	-50.7	27.9	20.9	-28.7	-81.1	8.2	-0.2	
7th	0.5	-8.6	-10.7	49.5	15.8	58.2	6	-33.8	-34	41.4	1.4	8.1	
8th	29.7	-16.5	20	-81.8	11.7	-68.4	72.8	-99.8	-185.8	182.5	-3.1		

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144		Flap Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.174		Chord Bending, in-lb Blade 3, r/R=0.325												
		MEAN	-2332.2	-3562.9	-2318.5	-3966.5	-1159.3	RMS	993.2	1624.5	1069.4	2000	1637.1	1126	1/2 P-P	1943.8	3498.3	2199.9	3831.1	3101.9	2399.6	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	
1st	371.7	96.2	252.9	-1770.6	-355.2	166.3	2242.5	714.3	1873.6	631.1	1370.1	32.1										
2nd	561.9	1155.4	-660.2	-1074.4	-564.4	-1270	684.7	1246.4	512.6	960.6	275.5	341										
3rd	73.3	176.7	-103.9	188.2	207.4	-127.6	173.1	153.6	122	96.9	-104.4	-95.6										
4th	-88.7	-50.6	153.8	-20.5	-106.7	-74.1	101.8	16.7	6.7	58.5	-389.7	204.8										
5th	-121.2	65.2	165.4	-54.7	-86.5	-153	86.4	185.7	42	99.8	-44.9	-259.1										
6th	7.7	18.2	-9.4	-13	-22.6	-16.5	24.4	13.8	18.3	1.7	-23.1	-54										
7th	-25	-14.7	-3.4	-40.3	-16.3	24.8	-19.7	-35.1	-18.2	-29.7	-22	-4.4										
8th	-10.5	42.4	86	163.8	-3.4	40.8	74.6	170.5	58.2	154.8	25	96.1										
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400		Flap Bending, in-lb Blade 4, r/R=0.144		Chord Bending, in-lb Blade 4, r/R=0.144		Torsion, in-lb Blade 4, r/R=0.400		Pitch Link, lb Blade 1												
35/29	MEAN	-1138.9	-524	0	0	-5270.3	-5270.3	-578.5	-578.5	-103.4	-103.4											
	RMS	1002.3	414.1	0	0	1307.6	1307.6	368	368	57.2	57.2											
	1/2 P-P	2133.3	672.8	0	0	2694.3	2694.3	617.1	617.1	112.5	112.5											
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	
1st	1052.5	-186.4	-222.8	463	0	0	-638.3	1023.9	-404.5	-221.4	33.9	-64.8										
2nd	119.4	69.3	16.7	258.2	0	0	-657.9	-1061.2	2	-223.5	-18.2	23.7										
3rd	-224.6	-135	37.2	48	0	0	151.1	-125.2	23.1	-33.7	-3.9	0.7										
4th	-546.2	336.9	47.8	73.6	0	0	63.3	23.4	51.8	56.9	9	11.9										
5th	-110.7	-442.6	-3	10.8	0	0	-158.8	37.5	-10.7	-4.2	0.7	-0.2										
6th	-12.1	-80.4	10.1	2.4	0	0	-21.3	4.2	-9.3	-2.1	1.2	0.4										
7th	13.8	26.3	0.4	-9.2	0	0	-17.6	-24.1	-7.7	-1.1	-1.5	-1.3										
8th	-24.1	-58.5	-1.6	0	0	0	63.3	172.8	-2.3	-0.5	2.2	-2.8										

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.570
MEAN	-932.6	-241.9	140.9	0	0	312.3	-76.5	
RMS	985.1	562.7	243	0	474.1	837		
1/2 P-P	1733.9	1056.5	512.5	0	930.2	1429.8		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-449.6	-12.5	-252.6	-99.6	13.2	-278.4	0	241.4
2nd	-698.4	-1088.6	-386.1	-624.5	-130.8	-99.7	0	-491.5
3rd	-120.1	-61.4	-61.8	-43.9	-7.5	-24.8	0	571.7
4th	-94.9	-41.9	-38.6	-22.4	26.3	13.4	0	-794.4
5th	44.3	57.6	24.9	14.8	6.6	-42.2	0	601.7
6th	1.9	-13.2	7.9	-3.2	15.9	10.1	0	44.9
7th	7.5	-14	0.5	-4	-10.7	14.3	0	233
8th	-0.7	32.6	12.5	13.4	31.3	-17.2	0	131.7
								31.9
								-1.7
								-38.6
								40.7
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
35/30	Blade 1, r/R=0.725		Blade 1, r/R=0.800		Blade 1, r/R=0.900		Blade 1, r/R=0.144	
MEAN	-377.6	-594.4	-536.9	-4410.6	-2077.9	-562.2		
RMS	784.9	631.9	374.5	1883.8	1272.7	380.1		
1/2 P-P	1427.1	1200.5	885.3	4271.3	2824.4	645.3		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	440.1	-784.5	238.8	-607.1	-72.9	-206.1	-1818	-910.4
2nd	-4.9	442.7	-59.4	263.2	-140.4	19.1	1084	1120.8
3rd	295.8	228.9	332.6	240.5	284.7	135.1	-136.6	167.2
4th	-171	21.5	-220.8	54.7	-159.3	91.3	100.2	-150.5
5th	15.8	181.1	1.1	194.2	-37.6	143.7	-50.9	199
6th	9.9	-18.4	45.4	-29.8	49.2	-43.1	18.1	140.3
7th	1.8	5.2	-12.5	46.6	7.9	43.9	-1.7	-10.8
8th	26.6	-5.2	22.6	-61.5	9.8	-55	106.5	-36.9
							254.8	-139.8
							-257.1	-1.3
								-0.6

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
35/30						
MEAN	-1069.6	-2153.4	-1022.4	-2639.1	22.7	318.3
RMS	982.4	2802.1	1059.7	2938.3	2445.2	1814.3
1/2 P-P	1918	5500.4	2134.1	5768.4	4600.1	3509.1
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	323.5	282.6	-1155.7	-3350.4	-499.1	115.8
2nd	709.8	1080.8	-1082.8	-1276.3	-721.1	-1175.3
3rd	-77.2	82.9	-127	165.9	119.1	28.6
4th	-74.3	-36.6	197.8	-42.1	-93.7	-66.7
5th	-85.5	58.5	124	-51.7	-67.3	-117
6th	-7.5	13.1	0.5	-25.9	-0.4	-15.3
7th	-15.8	-16.5	-42.4	-35.8	-13.5	15.3
8th	-16.9	47.4	128.2	229.2	0.4	46
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
35/30						
MEAN	-907.5	-561.7	0	-3915	-625.3	-100.9
RMS	1630	427.7	0	2248.1	383.9	59.3
1/2 P-P	3533.6	712	0	4594.7	650.6	116.4
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	1587.2	-779.4	-265.6	454.4	0	848.9
2nd	222.5	135.3	-5.8	278.4	0	-1029.2
3rd	-200	-144.7	54.3	46.2	0	164.8
4th	-1016.7	375.4	37.1	63.6	0	71.4
5th	-120.5	-403.6	1.9	6.9	0	-130.8
6th	12	-92.7	9.5	1.7	0	9.5
7th	15.1	-10.1	0.6	-8.8	0	-9.1
8th	-39.9	-81.2	-1.8	-0.8	0	0

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		
	Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.570	Blade 1, r/R=0.325	Blade 1, r/R=0.570	
MEAN	-229.5	195.7	318.7	0	371.6	-13.7			
RMS	1011.7	581.6	275.7	0	500	892			
1/2 P-P	1764.1	1076.7	549.1	0	872.6	1507.4			
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-82.6	-57	-33.2	-121.9	14.9	-302.2	0	278.1	
2nd	-839.8	-1121.6	-471.3	-642.7	-166.2	-96.8	0	-523.1	
3rd	-74.3	-166.3	-34.2	-101.7	-4.5	-32.2	0	78.3	
4th	-72.6	-29.5	-28.5	-16	21.2	9.9	0	57.7	
5th	20.3	22.8	14.5	1.3	9.4	-28.9	0	63.4	
6th	1.3	-15.3	8.7	-4.3	19.3	9.1	0	-8.4	
7th	12.6	-17.5	5	-5.2	-6.2	14.5	0	19.6	
8th	6.4	13.7	12.4	4.2	18.7	-13.2	0	20	
RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
35/31	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570		
MEAN	-379.2	-642	-625.1	-3583.3	-2000.6	-582.5			
RMS	810.5	630.6	373.5	3323.7	1579.2	403.1			
1/2 P-P	1402.4	1230.4	867.1	6165.3	3266.9	678.2			
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	479	-825.6	250.1	-632.5	-107.2	-212	-3608.4	2196.9	
2nd	-49.2	448.1	-116.5	258	-197	7.9	1387.5	1418.2	
3rd	283.6	252.2	323.1	236.9	280.2	118.4	-122.4	-185.1	
4th	-155.5	44.8	-200.2	82.1	-143.2	108.4	130.8	108.4	
5th	-37.5	88.2	-64.5	89.6	-80.8	67.7	-28.6	-1224.3	
6th	1.7	-23.8	24.9	-40.4	28.3	-49	5.1	47.1	
7th	7.3	5.1	-2.1	45	9.5	44.2	14.2	21.1	
8th	18.1	-2.3	-2.9	-33.9	-15.6	-28.8	74.6	-13.1	

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
		Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.174	Blade 3, r/R=0.325	
MEAN	-375.4	-1350.1	-286.1	-1969.7	622.5	568.2	568.2	568.2	568.2	568.2	568.2
RMS	1141.2	4316.2	1238.6	4324.5	3610.2	2528	2528	2528	2528	2528	2528
1/2 P-P	2220.3	7750.2	2430	7539.6	6062.6	4262.5	4262.5	4262.5	4262.5	4262.5	4262.5
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	386.6	665.7	-2310.8	-5226.3	-861.7	156.9	5348.7	-1934.8	4524.8	3016.6	-1417.7
2nd	847.9	1097.8	-1370.6	-1541.6	-869.3	-1208.4	1357.2	1702.3	1047.7	1360.3	571.1
3rd	-191	57.4	-176.8	153.7	81.2	133.9	176.3	208.8	132.3	151.2	-60.6
4th	-59.4	-21.3	242.8	-39.8	-87.5	-49.9	110.1	-9.8	-78.7	22.8	-911
5th	-58.7	32.6	87.9	-46.1	-62.5	-91.7	66	145.2	24.9	79.1	-51.1
6th	-3.1	10.6	-13.2	-29.5	-5.8	-14.1	7.4	39.3	5.1	19.3	-6.9
7th	-13.9	-22.5	-16.1	-35.6	-21.7	18.5	-13.2	-12.5	-1.6	-17.6	-22.2
8th	-9.5	21.3	83.9	96.5	2.8	21.7	77.8	93	69.1	89	28.8
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
35/31	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 4, r/R=0.400	Blade 4, r/R=0.400	Blade 4, r/R=0.400	Blade 4, r/R=0.400	Blade 4, r/R=0.400	Blade 4, r/R=0.400	Blade 4, r/R=0.400	Blade 1	Blade 1
MEAN	-792.5	-583	0	0	-3136.5	-651	-651	-651	-651	-98.3	-98.3
RMS	2064.5	447.6	0	0	3755.9	401.4	401.4	401.4	401.4	64.2	64.2
1/2 P-P	3810.7	748.1	0	0	6700.6	682.7	682.7	682.7	682.7	126.3	126.3
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	2177.7	-1258.1	-296.8	457.5	0	0	2090.6	4427.7	-401.8	-296.9	53.6
2nd	287.6	221	-18.6	301.9	0	0	-1315.6	-1492.5	55.6	-248.4	-30.3
3rd	-160	-141.7	61.2	42.8	0	0	189.3	-88.1	33.4	-58.3	-5.1
4th	-1283.7	281	34.2	66.1	0	0	65.3	24.5	19.3	49.6	3.5
5th	-102.6	-324	3.1	11.7	0	0	-127.7	42.8	-7.8	5.8	-0.1
6th	19.5	-90.6	8.9	-0.5	0	0	-8.3	-20	-5.1	0.8	-1.4
7th	-11.7	-1.6	-1.9	-8.2	0	0	18	-12	-7.7	0.7	-0.3
8th	-31	-29.9	-1.4	0.1	0	0	67.4	104.3	-1.8	-0.3	-0.9

RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.144	Flap Bending, in-lb Blade 1, r/R=0.167	Flap Bending, in-lb Blade 1, r/R=0.215	Flap Bending, in-lb Blade 1, r/R=0.280	Flap Bending, in-lb Blade 1, r/R=0.325	Flap Bending, in-lb Blade 1, r/R=0.570
MEAN	418.3	87.7	298.1	3810.2	390.1	-11.2
RMS	977.1	561.6	269.9	2314.5	495.1	875.5
1/2 P-P	1641	1000.9	530	3477	856.7	1451.8
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-25.1	-65.3	5.8	-125.9	132.2	-293.6
2nd	-730.5	-1148.3	-404.7	-657.6	-140.4	-103.6
3rd	-50.4	-66.8	-22	-45.6	0.7	-25.1
4th	-61.2	-27.1	-19	-14.7	30.2	9.3
5th	-0.4	10.8	7.8	-3.3	18.8	-22.6
6th	-6.5	-17.4	5.1	-3.1	20.1	15
7th	7.7	-20.4	1	-4.6	-11.4	21.2
8th	5.2	22.5	13	4.9	24.2	-23.6
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800	Flap Bending, in-lb Blade 1, r/R=0.900	Chord Bending, in-lb Blade 1, r/R=0.144	Chord Bending, in-lb Blade 1, r/R=0.570	Torsion, in-lb Blade 1, r/R=0.400
MEAN	-366.7	-615.1	-602.8	-3711.1	-2013.1	-583.8
RMS	795.7	620.9	365.3	3064.8	1297.7	395.6
1/2 P-P	1295.3	1178.2	850.7	5900.3	2524.6	652.2
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	471	-830.3	244.7	-641.1	-106	-220.4
2nd	-48.2	451.3	-108.2	260.7	-173.5	8.7
3rd	257.4	188.3	302.9	192.2	273.7	102.5
4th	-157.9	33.5	-207.2	72	-154.3	106.8
5th	-83.3	53.2	-126.5	43.1	-126.6	33.6
6th	-8.5	-29.7	25.6	-43	35.2	-48.7
7th	0.1	1.2	-16.1	51.6	-2.4	55.8
8th	20.3	-12.9	11.9	-64.7	5.8	-57.8

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
39/12						
MEAN	-568.1	-1507.5	-477	-2175.5	427.3	609.6
RMS	1126.5	4028.9	1193.8	4057.3	3384.5	2313
1/2 P-P	2261.1	7209.7	2412	7001	5740	3768.6
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	366.8	706.9	-1820.5	-4999	-860.3	169.5
2nd	757.4	1124.7	-1188.8	-1532.2	-752.9	-1206.2
3rd	-89.5	8.1	-148.2	18.6	55	54.1
4th	-43.7	-17.8	173.5	0.9	-63.2	-41
5th	-43.7	-19.2	69.6	-5.4	-4.4	-78.3
6th	10.1	19.2	-21.5	-42.7	-5.1	-16.4
7th	-14.3	-14.2	-2.2	-18.4	-8.8	25.5
8th	1.1	19.2	119	128.8	13.2	30.1
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
39/12						
MEAN	-778.3	-586.7	0	-3293.5	-655.8	-129
RMS	1798.2	444.5	0	3480.6	398.8	47.8
1/2 P-P	3131.4	727.9	0	6219.3	662.3	77.3
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	2070.4	-1108.4	-290	463.7	0	1594.5
2nd	210.1	229.3	-21.6	292.6	0	-1082.8
3rd	-229	-97.4	54.5	48.9	0	166.8
4th	-688.7	231.1	28.7	54.6	0	52
5th	64.4	-299.2	4.4	7.8	0	-107.9
6th	3.1	-109.1	10.4	-0.3	0	0.2
7th	-3.4	-20.4	0.5	-10	0	47.1
8th	-47.4	-48.2	-1.6	-0.6	0	114.4

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144	Flap Bending, in-lb Blade 1, r/R=0.167	Flap Bending, in-lb Blade 1, r/R=0.215	Flap Bending, in-lb Blade 1, r/R=0.280	Flap Bending, in-lb Blade 1, r/R=0.325	Flap Bending, in-lb Blade 1, r/R=0.570
39/13	MEAN	364.4	572.5	498	789.7	469.4	61.5
	RMS	1068.5	611.5	264.9	1086.6	507.5	921.6
	1/2 P-P	1898.6	1087	480.5	3978.2	869.1	1556.3
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-245.6	20.8	-130.9	-70.6	83	-285.2	-132
2nd	-889.5	-1176	-502.6	-676.1	-182.2	-100.5	7.8
3rd	-58.5	-154.1	-24.2	-97.3	0.2	-37.7	327.6
4th	-80.6	-15.2	-33.4	-6.2	21.7	16.5	-410.8
5th	-21.8	8.8	-1.8	-2.4	24.5	-16.5	416.4
6th	10.3	-29.6	14.5	-8.2	18.9	16.6	-24.3
7th	14.3	-19.6	7.2	-6.8	-4.7	11.8	-244.3
8th	14.7	15.7	14.1	0.7	10.4	-22.6	325.5
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800	Flap Bending, in-lb Blade 1, r/R=0.900	Flap Bending, in-lb Blade 1, r/R=0.144	Chord Bending, in-lb Blade 1, r/R=0.570	Chord Bending, in-lb Blade 1, r/R=0.400	Torsion, in-lb Blade 1, r/R=0.400
39/13	MEAN	-380.2	-678.9	-695.1	-2946.4	-1907.5	-595.6
	RMS	869.3	677.6	385.6	3855.5	1756.7	419.6
	1/2 P-P	1437.1	1366.9	932.6	6987.7	3606.7	682.3
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	512.3	-905.7	269.1	-712.4	-121.2	-254.5	-3855.3
2nd	-26	483.7	-100.9	286.9	-206.2	21.5	1551.9
3rd	274.8	262.6	317.9	245.2	283.8	114.2	1518.4
4th	-110.7	34.3	-128.6	66.2	-70.5	98.7	-193.4
5th	-129.5	63	-168.9	78.8	-143.8	73.6	-138.5
6th	20.1	-39.9	43.5	-52.3	39.6	-52.6	26.3
7th	17	10.9	12.3	47.6	21	48.7	-1331
8th	13.9	-8.1	-22.8	-45.9	-37.9	9.2	77.1

RUN/POINT		Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
		Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.174	Blade 3, r/R=0.325	
39/13											
MEAN		238.3	-833.5	339.1	-1437.6	1078.7				873.6	
RMS		1121.8	4802.2	1185.6	4670.6	3927.1				2794.7	
1/2 P-P		2034.3	8274.5	2202.2	8095.7	6639.4				4515.6	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	290.9	509.3	-3173.1	-5546.3	-635.4	80.2	5478.4	-2858.8	4677.3	-2356.3	3130.2
2nd	890.5	1151.3	-1510	-1626.9	-900	-1242.4	1510.2	1704.2	1173.8	1364.3	638.9
3rd	-174.2	16.5	-216.9	183.1	58.2	128.5	183.4	200.9	132.3	136	-66.2
4th	-60.6	0.1	247	-51.3	-84.2	-27.1	90.3	-24.5	-124.6	35.4	-1067.1
5th	-44.1	-26.7	73	-19.6	1.4	-71.8	43.2	152.8	23.6	90.2	23.9
6th	-13.3	19.5	-6.7	-46.6	8.8	-13.6	1	42.9	-0.3	19.9	7.9
7th	-14.9	-25.7	-36.7	-29.7	-20	18.1	-37.1	-17.8	-34.5	-21.3	-30.8
8th	2.1	19.3	112.8	45.1	9.4	24.6	111.5	39	99.9	45.9	46.5
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Torsion, in-lb	Blade 4, r/R=0.400	Pitch Link, lb	Pitch Link, lb
39/13		Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.400						Blade 1	Blade 1
MEAN		-647.9	-598.3	0		-2593.4		-675.7		-121.8	
RMS		2320.9	465.2	0		4256.6		419		41.8	
1/2 P-P		4316.7	758	0		7482.3		685.3		65	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	2274.8	-1616.3	-319.9	468.8	0	0	2989.6	4745.8	-411.6	-318.4	43.7
2nd	323.4	233.8	-22.6	315.6	0	0	-1431.8	-1586.2	62.8	-261	4.7
3rd	-183.9	-197.9	60	48.9	0	0	224.4	-110.7	36.9	-61.9	-16.5
4th	-1484	480	23	58.2	0	0	85.4	8.8	9.7	48.1	0.7
5th	6.8	-305.6	9.1	10.6	0	0	-113.8	16.6	-3.9	12.1	1.2
6th	14.5	-116.2	9.8	-2.2	0	0	9.8	-27.3	-4.3	2.7	-0.1
7th	-15.3	-7.2	-5.1	-8	0	0	12.9	-23.3	-8.2	2.7	-0.1
8th	-55.2	-3.7	-0.8	0.8	0	0	99	61.1	-0.5	0	0.1

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570
MEAN	943.9	935.3	645	-12466.9	532.5	138.1		
RMS	1062.9	622.4	335.3	656.4	528.7	923.2		
1/2 P-P	1783.1	1087	646.4	1767.8	927	1645.2		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	309.4	-198.5	204	-194.1	232.6	-343.7	333.5	-164
2nd	-890.5	-1102	-505.5	-631.8	-189.2	-86.6	154.6	325.5
3rd	-16.9	-301.7	0.3	-178.1	0.5	-44.6	16.3	339.2
4th	-39	15.5	-16	10.7	11	13.9	-133.8	-372.6
5th	-20.3	-5.6	-2.6	-1.7	19.1	3.2	-255.1	-237.8
6th	1.3	-15.8	9.9	-0.9	22	15.4	-218.6	-106.2
7th	13.7	-14.9	11.7	-4.2	5.6	11.9	-96.9	-218.6
8th	15.9	10.4	6.3	3.7	-8.1	-4.9	-42.4	-22.4
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb	Torsion, in-lb
39/14	Blade 1, r/R=0.725		Blade 1, r/R=0.800		Blade 1, r/R=0.900		Blade 1, r/R=0.144	Blade 1, r/R=0.570
MEAN	-315.1	-659.7	-739.1	-1986.5	-1836.5			
RMS	861.9	684.2	416.6	5917.5	2262.3			
1/2 P-P	1563.1	1395.9	944.3	9583.4	4488			
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	521.5	-892.8	259.5	-710.6	-156.6	-270.6	-6394.2	4775.9
2nd	-185.3	410.4	-254.1	223.4	-294.3	-8.9	1759.7	1705.8
3rd	228.5	343.3	269.7	315.5	242.6	163.6	-71.1	-237.7
4th	-81.1	67.3	-99.7	101.8	-65.8	117	130.4	3.2
5th	-104.2	-50.8	-138	-63.3	-115.4	-30	-19.5	-1505.1
6th	6.7	-28.3	18.8	-36.8	16.3	-35.7	-39.8	-46
7th	22.5	4.6	31	25.3	33.2	21.8	36	2.9
8th	-0.3	-0.3	-53.2	-12.3	-63.5	-9.5	-9.6	-46

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
39/14						
MEAN	826.3	125.3	920.8	-433.4	1957.2	1221.6
RMS	1308.5	6777.9	1376.5	6325.9	5323.9	3701
1/2 P-P	2369.5	10779.4	2602.1	9895	8179.4	6034.1
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	533.8	1056	-4707.8	-7946.3	-1202.8	265.9
2nd	874.9	1060.8	-1690.3	-1844	-893.7	-1167.1
3rd	-339.3	-19.5	-234.6	90.2	14.6	293.5
4th	-26.4	25.9	252.9	-39.1	-36.6	-9.6
5th	-9.8	-20.9	49.7	-29.6	11.7	-46.7
6th	10.7	8.1	-3.3	-5.1	-13.3	-13.4
7th	-6.3	-14	-3	-38.5	-12.1	15.4
8th	2.2	10.3	-17.5	9.2	-1.1	14.6
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
39/14						
MEAN	-519.6	-610.4	0	-1688.8	-695.3	-121.6
RMS	2979.5	468.2	0	6409.6	421.7	44.9
1/2 P-P	5588.8	744.3	0	10347.8	712.6	70.1
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	2833.8	-2363.2	-349	462	0	4606.5
2nd	446.2	242.7	-33.7	303.1	0	-1650
3rd	-42.2	-205.2	67.8	33.8	0	236.6
4th	-1790	282.5	-4.9	55.6	0	47.9
5th	33	-21.4	7.4	15.8	0	-92.3
6th	41.2	-48.4	9.3	0.4	0	22.4
7th	3	-18.9	-8.2	-6.7	0	31.5
8th	10.4	16	2.3	3.7	0	-21.7

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
		Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.570	
MEAN	-3173.4	-1619.3	-411.3	0	0	136.1	-231.3				
RMS	1077.4	608.3	206.6	0	0	455.8	845.3				
1/2 P-P	1754.9	1030.2	473.4	0	0	906.2	1462.8				
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-327.4	119.7	-170.9	-14.2	37.1	-194.9	0	0	234.5	-403.1	499.1
2nd	-700.8	-1238.4	-378.8	-718.3	-100.8	-145	0	0	135.4	323.3	-709.3
3rd	-252.7	216	-143.6	112.6	-18.1	5.6	0	0	124.7	-108	243.7
4th	-129.6	-57.4	-54.2	-32.6	31.2	14.6	0	0	99.7	52.1	689.4
5th	76.6	74.1	37.4	22.1	-4	-51.1	0	0	-71.9	-129.3	-93.7
6th	-11.8	-6.9	-2.2	0.3	9.4	12.5	0	0	15.4	24.8	31.3
7th	11	-17.3	1.3	-4.3	-15.7	16.1	0	0	-34.5	34.7	27
8th	-32.4	27.7	0.7	8.4	48	-17	0	0	64.1	-37.6	29.9
RUN/POINT	Flap Bending, in-lb	Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Torsion, in-lb	
41/24	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	
MEAN	-339	-394.1	-224.6	-6370.8	-2286.6	-523.8	523.8	-504.5			
RMS	787.6	637.6	369.4	1513.2	1513.2	1251.9	1251.9	363.5			
1/2 P-P	1491.8	1351.5	923.9	3515.2	3515.2	606.6	606.6				
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	SINE
1st	377.3	-683.3	220.6	-503.5	-3.1	-143.5	-376.5	-1436.5	-363.8	61.6	193.3
2nd	262.6	516.9	183.8	313.2	6.6	25.8	690.1	1077.6	-58.9	-110.6	-402.9
3rd	429.4	20.4	464.9	55.2	369.7	25.5	-138	-122.1	313.2	97.9	229.7
4th	-192.3	-29.1	-257.4	6	-184.1	54.8	108.8	62.9	-142.5	153.9	-44.4
5th	107.3	216.5	103	223.7	32.6	154.2	-44.2	-133.9	19.1	315.9	64.2
6th	-3.4	-12.3	37.7	-22.8	46.1	-35.6	27.3	-8.3	-10.9	-46.2	-6.7
7th	-2.3	-3.8	-25	53	-8.3	61.5	42.8	2.7	-36.9	42.3	0.4
8th	38.1	-10.7	82.9	-56.1	81.2	-41.9	-12	160.2	6.3	-192.4	8

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
4/1/24						
MEAN	-3388.3	-3939.2	-3396.3	-4358.4	-1523.4	-336.3
RMS	1111.4	1839.2	1201.6	2289.6	1873.5	1110
1/2 P-P	2294.8	3420.5	2538.4	4128.5	3419.9	2251.8
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	137.2	457.9	1210.2	-1804.6	-708.8	-32.7
2nd	746.5	1235.2	-693.2	-1093.6	-704.2	-1302.5
3rd	239.9	195.5	-115.9	217.8	252.9	-249.7
4th	-99.7	-53.1	135	7.7	-116	-65.9
5th	-84	84.5	125.1	-50	-93.1	-117.7
6th	7.9	15.7	-21.9	-10.9	2.7	-5.4
7th	-18.2	-15	3.6	-4.3	-6.9	23.2
8th	-43.6	27	-20.2	157.9	-8.5	26.8
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
4/1/24						
MEAN	-1202.5	-511.9	0	-5797.2	-561.3	-139.5
RMS	843.6	419.5	0	1670.7	370	43.8
1/2 P-P	1850.8	679.3	0	3497.6	621.9	72
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	944.9	233.3	-212.5	466.9	0	-1669.4
2nd	41.3	44.8	37.6	264	0	-631.5
3rd	-281.7	-107.8	24.5	77.9	0	149.8
4th	-157.9	253.9	62.1	81	0	72.1
5th	-44.3	-423.2	0.2	12.2	0	-131.5
6th	-2.5	-85.9	11.2	2.9	0	4
7th	13.3	-4.8	3.6	-8.1	0	13.8
8th	19.7	-58.6	-0.5	1	0	-27.6

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
		Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.370	Blade 1, r/R=0.400	
MEAN	-2102.6	-947.8	-130.2	0	0	250.8	-115.7				
RMS	926.2	522.2	201.8	0	0	426.1	760.2				
1/2 P-P	1417.9	860.8	397.2	0	0	782.5	1244.5				
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-150.3	110.9	-67.6	-15.9	85.4	-201.5	0	0	248.5	-408.9	518.8
2nd	-638	-1104.4	-347.1	-637.1	-106	-120.1	0	0	91.7	299.3	94.3
3rd	-145.4	63	-79.2	28.1	-8	-9.3	0	0	80.4	-55.6	239.4
4th	-96.4	-57.8	-37.1	-30.5	29	15	0	0	81	51.7	9.1
5th	49.5	59.7	26.7	18.7	3.7	-39.3	0	0	-40.5	-97.7	-14.2
6th	-10.4	-6	-0.8	0.5	11.5	10.9	0	0	16.1	21	-12.7
7th	7.1	-10.8	2.3	-1.9	-7	11.8	0	0	-21.9	23.9	29.5
8th	-9.5	10.6	2.9	3.7	20.6	-5.6	0	0	20.2	-11.6	-24.5
8.1											
RUN/POINT	Flap Bending, in-lb	Flap Bending, in-lb	Flap Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb				
41/25	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.400	Blade 1, r/R=0.400				
MEAN	-310.3	-450.2	-381.7	-4879.8	-2131.4	-539.6					
RMS	713.6	571.6	325.1	1575.6	658.7	352					
1/2 P-P	1304.3	1100.8	806.6	3049.3	1398.2	585.6					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	397.9	-703.9	223.5	-538.3	-41	-173.8	-149.1	-661.8	-637.7	301	219.7
2nd	68.4	414.4	17.6	240.3	-74	4	811	1124.6	22.3	-46.2	-10.9
3rd	298.8	136.9	330.1	156.8	275.6	85.2	-128.5	-121.5	244.9	94.9	-31.8
4th	-196	-25	-262.4	-1.4	-199.4	41.5	79.2	61.9	-391.6	57.2	-30.3
5th	45.5	175.3	33.3	190.9	-13.5	140	-13.8	-108.1	-11.7	229.1	-55.6
6th	-12.5	-8.2	12.5	-15.7	21.2	-26.1	13.7	-8.1	-18	-24.1	-2.1
7th	0.5	3.7	-10.6	40.9	4.7	45.4	49.9	0.4	-34.2	30.2	-0.3
8th	15.2	-1.6	15.1	-18.7	10.7	-9	5.1	102.5	-23.8	-115.8	7.3
7.3											0.7

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
41/25						
MEAN	-2295.9	-2565.9	-2291.9	-3004.8	-336	209.8
RMS	1028.6	2506.8	1140.1	2755.6	2267.3	1431.4
1/2 P-P	2003.4	4727.5	2293	4791.7	3974	2756.4
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	153.5	626.9	491	-3103.3	-844	-38
2nd	677.8	1095.3	-809.8	-1250.4	-649.9	-1178.7
3rd	66.4	84.3	-119.5	154	143.8	-99.2
4th	-78	-52	129.3	-1.1	-94.6	-73.6
5th	-76	61.5	91.3	-44.5	-76.1	-109
6th	5.9	13.5	-27.2	-13	-0.3	-4.2
7th	-9	-9	5	-4.4	-5.7	12.8
8th	-21.4	0.8	-8.7	92.1	8.7	12.7
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
41/25						
MEAN	-957	-542.1	0	-4421.3	-601.3	-141.3
RMS	1089.7	403.5	0	1890.9	357.3	44.7
1/2 P-P	2319.7	662.8	0	3497.6	599.6	72.8
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	1338.7	-79.1	-236.4	438.9	0	-868.9
2nd	82.5	99.7	-0.9	253.7	0	-741.4
3rd	-228.7	-109.1	41.3	58.7	0	156.4
4th	-472.2	234.3	44.7	72	0	81.6
5th	-35.2	-379.3	1.4	7.7	0	-94.1
6th	9.6	-75.8	9.5	1.3	0	24.2
7th	-8.1	-10.4	2.1	-7.2	0	41.2
8th	1.8	-22.4	-1.6	0.9	0	11.2

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
		Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.570	
MEAN	-893.3		-193.1		181.7		0		370.3		3.8
RMS	989.4		559.5		214.9		0		434.4		804.8
1/2 P-P	1705.6		948.9		419.4		0		758.3		1346.2
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-158.7	150.2	-75.3	13.7	91.6	-201.2	0	0	263.5	-426.2	570.9
2nd	-848.1	-1074.9	-475.8	-619	-160.8	-103.4	0	0	88.5	314.6	-769
3rd	-57.8	1.1	-29.8	-6.8	-3.8	-20.3	0	0	41.6	-43.6	574.1
4th	-80.9	-29.4	-29.1	-14.9	30.1	12.4	0	0	73.4	29.2	65.2
5th	-10.9	-7.4	2.2	-8.4	18.6	-9.4	0	0	26.9	-4.3	11.4
6th	-1.9	-21.4	4.6	-5.2	11.7	16.1	0	0	12.1	37.8	12.5
7th	8.8	-13.9	1.8	-2.6	-9.7	14.7	0	0	-26.6	31.5	-17.5
8th	9.6	11.3	11.2	-1.8	12.3	-22.3	0	0	-4.1	-28.5	-27.2
											36.8
RUN/POINT	Flap Bending, in-lb	Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
		Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.400	
MEAN	-325.2		-549.8		-536.9		-3196.5		-1915.2		-576.4
RMS	733.7		563		311.9		2185.8		961.9		368
1/2 P-P	1261.2		1109.7		708.1		4506.1		1971.1		620.3
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	436.4	-781.2	232.7	-603.7	-86.9	-205.9	-2312.1	897.6	-914	736.6	256.9
2nd	33.3	401.7	-49.3	227.7	-159.4	0.4	1214.5	1253.9	71.6	28	-376.3
3rd	224.5	130.3	256.9	126.2	222.6	51.2	-122.3	-169	204	33	236.6
4th	-147.7	-1	-192.7	23.1	-145.8	54.5	79.7	49.6	-413.1	-43.3	-33.2
5th	-78.7	5.3	-113.2	2.3	-108.7	11.2	30.5	-69.1	-106.4	31.5	46.5
6th	5.4	-37.8	28.6	-48.5	30.8	-42.6	-0.1	24.2	-11.5	-70	0.9
7th	5.8	4.1	-5.3	42.9	1.1	50.4	-10.7	9.8	22.2	7.9	-3.4
8th	13	-13.5	-6.8	-44	-15.5	-34.9	98.3	64.3	-117.9	-70.4	7.5
											0.7

RUN/POINT		Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		
		Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.174	Blade 3, r/R=0.325		
MEAN	-1057.8		-920.1		-1015		-1598.6		912		784.3	
RMS	1043.3		3210.7		1160.6		3366		2792.9		1845.8	
1/2 P-P	1916.7		5884.6		2169.8		6041.6		4953.7		3164.2	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	
1st	123.7	544.3	-1093.7	-3966.6	-762.2	-59.8	4265.5	-602	3583.1	-458.8	2373.5	
2nd	857.5	1049.5	-1199.6	-1397.1	-861.5	-1154.5	1168.2	1555.3	885.5	1250.4	438	
3rd	-10.1	1.3	-143.8	149.2	35	-41.8	159.4	200.8	111	155.8	-96.3	
4th	-60.7	-21.9	141.9	14.5	-80.2	-47.1	113.9	23.6	29.6	53.3	-321.5	
5th	-13.5	-16.2	58.9	4.1	-1.3	-46.8	-5.8	140	0.6	85.7	88.7	
6th	0.4	27.9	-13.1	-38.6	-3.4	-19.3	14.7	29.7	9.8	12.4	17.4	
7th	-12.2	-11.8	-37.8	7.9	-12.5	20	-14	14.9	-16.7	5.8	-17.3	
8th	2.8	8.1	91.4	35	11.9	25.6	104	18.4	96.1	28.6	52.8	
											9.2	
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
		Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 4, r/R=0.400	Blade 1		
MEAN	-679.4		-581		0		-2748.3		-646.9		-138.4	
RMS	1413		416.2		0		2567.1		369.9		45.4	
1/2 P-P	2578.5		691.4		0		5026.4		626.7		74	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	
1st	1687.4	-702.9	-272.7	432.6	0	0	768.6	3007.7	-375.1	-270.9	51.6	
2nd	163.8	211.8	-13.2	270.1	0	0	-1140.9	-1319.2	44.9	-225.1	8	
3rd	-202.1	-19.4	53.1	58.6	0	0	178.8	-94.4	41.2	-42.3	1.1	
4th	-454.3	252.3	40.6	58.1	0	0	83.3	34.3	35.3	41.3	0.1	
5th	106.3	-243.1	9.7	0.7	0	0	-73.1	-38.9	-0.1	9	-0.1	
6th	7.7	-104.7	8.4	-1.9	0	0	26.3	-9	-6	-0.2	0.1	
7th	0.9	-14.2	0.8	-7.9	0	0	-1.7	27.3	-7.6	-1.2	-0.2	
8th	-38.4	-11.5	-1.5	1.2	0	0	97.1	58	-2.5	-0.4	0.1	

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
41/27													
MEAN	-65	318.4	385.4	0	0	430.6	430.6	65.9	65.9	851	851		
RMS	1072	608.5	223.9	0	0	465.1	465.1	813.2	813.2	1418	1418		
1/2 P-P	2078	1195	492.3	0	0								
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-553.3	148.6	-314.8	10.4	1	-231.6	0	0	258.7	-483.3	603.1	-829.7	
2nd	-841	-1094.2	-473.8	-627.6	-169.2	-95.6	0	0	74.7	334.5	22.9	584.4	
3rd	-12.3	-179.8	-2.1	-107.5	-4.6	-37.4	0	0	24.7	14.6	151.7	180.4	
4th	-55.4	-7	-20.2	-2.2	19.6	10.6	0	0	48.9	12.2	-16.1	9.7	
5th	29.1	28.2	16.2	4.2	2.3	-31.9	0	0	-28	-64.8	-4.7	16.5	
6th	-5.4	-10.2	2.1	-0.6	13.1	12.1	0	0	16.7	19.3	-18.1	-12.4	
7th	2.4	-5.4	1.2	1.9	-1.2	14.8	0	0	-11.6	23.5	14.7	-23.1	
8th	-1.1	14.5	4.8	5.8	13.9	-8	0	0	6.3	-16.9	-9.2	17.3	
RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.725		Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Chord Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400	
41/27													
MEAN	-318.1	-594	-628.3	-2404.1	-1851	-595.7							
RMS	800.6	630.9	362.8	2764.1	1370.8	398.3							
1/2 P-P	1268.8	1086.1	745.8	5182.5	2954.9	647.4							
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	474.8	-845.6	255.2	-668.8	-100.8	-242.6	-2087.7	2616.3	-975.3	1246.6	290.6	-391.8	
2nd	-79.7	417.3	-149.2	238.1	-219.2	4.7	1436.7	1288.6	185.9	26.5	-37.3	264.4	
3rd	265.9	230	312.8	213.4	276.3	96.5	-134.2	-148	124.2	180.2	-68.8	-24.3	
4th	-112.4	52.9	-136.2	87	-93.5	103.3	125.1	24	-1000.2	4.1	16.7	44.2	
5th	25.3	109.9	23.4	122.2	-2	95.4	-53.2	-78.6	75.3	119.9	-7	-0.8	
6th	3.6	-16.7	23.4	-27	33.2	-30.2	15.3	0.5	-6.2	-31.8	3.9	0.4	
7th	7.9	10.1	13.3	35.5	25.6	30.6	25	-15.4	-8.1	38.5	4.9	5.8	
8th	10.6	-2.2	0	-21.7	-4.8	-17.9	46.8	86.7	-57.8	-89.7	-1.5	3.6	

RUN/POINT 41/27	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144				Flap Bending, in-lb Blade 3, r/R=0.144				Chord Bending, in-lb Blade 3, r/R=0.144				Chord Bending, in-lb Blade 3, r/R=0.174				Chord Bending, in-lb Blade 3, r/R=0.325			
		SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE		
MEAN	-224.9	-101		-145.1		-833.8		1605.3		1082.4											
RMS	981.9	3646.9		1056.7		3612.3		3029		2152											
1/2 P-P	1637.1	6484.5		1849.9		6656.3		5395.3		3583.6											
HARMONIC																					
1st	110.7	162.2	-2673.7	-3895.7	-344.6	-64.9	4105.9	-2122.5	3508.2	-1758.2	2358.9	-1526.4									
2nd	842.4	1053.2	-1403.5	-1402.7	-849.1	-1149.6	1441.6	1521.1	1120.4	1216.3	600.3	450.4									
3rd	-191.7	-33.5	-155.2	168.4	9.1	148.6	165.3	147.8	116.9	108.8	-83.3	-83.7									
4th	-35.8	4	208.6	-48.9	-49.4	-15.4	112.8	-19.5	-52.8	30.7	-781.3	188.1									
5th	-59	29.8	85.1	-43.5	-49.3	-84.7	68.7	112.6	30.8	60.2	-59.7	-166.6									
6th	1.6	16.7	-24.7	-11.1	4.2	-14.8	-0.2	24.2	-7.5	12.6	-12.6	-59.3									
7th	-7.5	-8.2	-17.9	0.9	-8.5	8.2	-6.4	42.3	-13.5	26.2	-23.6	-21.3									
8th	-10.4	4.1	42.4	82.8	12.2	6.1	52.4	63.9	44.2	68.2	13.7	36.4									
RUN/POINT 41/27	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400				Flap Bending, in-lb Blade 4, r/R=0.144				Chord Bending, in-lb Blade 4, r/R=0.144				Torsion, in-lb Blade 4, r/R=0.400				Pitch Link, lb Blade 1			
MEAN	-551.2	-603.5	0		0		-2009.2		-673.2		-129.4										
RMS	1797.5	443	0		0		3061.7		396.7		43.1										
1/2 P-P	3325.9	730.9	0		0		5655.4		649.7		73.3										
HARMONIC																					
1st	1708.2	-1356	-307.2	443.6	0	0	2457.1	2953.7	-387.8	-308.3	50.9	27.2									
2nd	298.6	157.4	-26.6	298.4	0	0	-1351.7	-1338.2	62.1	-241.6	8.7	-17									
3rd	-182.3	-115.8	67.1	54.6	0	0	171.5	-109.7	40.8	-59.7	1.3	1									
4th	-1096.7	372.1	24.1	53.5	0	0	64.4	6.5	12.6	35.9	0.1	-0.2									
5th	-136	-278.1	7.1	8	0	0	-104.7	43.2	-5.5	8.8	0.3	-0.1									
6th	-14.8	-80.6	9.1	-1.4	0	0	21.2	-10.6	-5.8	-0.2	0	-0.2									
7th	-12.7	-42.1	-1.8	-6.9	0	0	17.8	21.2	-6.7	-0.3	0.1	-0.1									
8th	-31	-15.1	-1.9	1.6	0	0	44.3	79.3	-1.5	2.4	0.1	-0.2									

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
		Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.370	Blade 1, r/R=0.400	Blade 1, r/R=0.570	Blade 1, r/R=0.400	Blade 1, r/R=0.570
MEAN	717.3	804.5	586	0	0	506.8	113.6				
RMS	1115.6	640.1	253.1	0	0	475.1	865.6				
1/2 P-P	2344.6	1359.3	478.7	0	0	808	1460.7				
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	SINE
1st	-558.9	75.7	-320.8	-29.1	5.1	-259.8	0	0	262.8	-497.5	-839.3
2nd	-924.8	-1035.7	-526.8	-594.1	-195.6	-80.7	0	0	64.6	333.3	8.8
3rd	-2.4	-317.5	7.9	-185.1	-1.9	-45.5	0	0	26	73.3	548.5
4th	-23.6	7.3	-9.4	9.1	5.7	19.1	0	0	14.8	17.8	309.8
5th	-23.3	-2	-2.6	-2.3	23.5	-2.8	0	0	46.7	4.8	136
6th	5.2	-19.1	10.9	-4.2	19.7	13.9	0	0	19.2	25.8	0.9
7th	13.3	-20.8	10.6	-6.4	6.7	15.5	0	0	-6.3	34.8	-11.6
8th	16.7	8.1	8.2	-0.4	-3.1	-15.4	0	0	-23.8	-19.1	-13.2
											-40
RUN/POINT	Flap Bending, in-lb	Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb			
41/28	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.325	Blade 1, r/R=0.570	Blade 1, r/R=0.400		
MEAN	-306.7	-636.2	-718.3	-1524.9	-1747						
RMS	807.1	633.6	377.5	4135.3	2042.7						
1/2 P-P	1486.9	1404	910.6	7383.9	4438						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	SINE
1st	490	-843.4	255.6	-665.3	-127.8	-251.9	-3025.3	-1232.3	1641.9	317.3	-390.1
2nd	-140.7	380.2	-218.8	208.5	-277.5	-6.7	1752.9	1264.5	285.3	59.2	-46.3
3rd	232	308.4	267.6	264.6	237	120.3	-85.7	-248.9	29.9	21.3	269.6
4th	-41.6	35.6	-52.4	62.8	-33.4	81.3	144.9	-39.6	-1819.6	-85.2	-8.3
5th	-117.6	-15.8	-152	-20.1	-125.3	-10.1	-36.1	-43.5	-30.2	73.1	48.4
6th	7.7	-26.7	20.6	-36.8	20.3	-38	-32.7	29.7	17.4	-2.3	-13.5
7th	17.7	10.6	28.4	39.5	31.2	38.9	-0.3	-49	2.3	67.2	-7.8
8th	-4.6	-5.5	-37.4	-24.9	-38.8	-23.1	35	33.7	-58.1	-30.1	-5.1
											2

RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	609	664.7	673	32.8	2382.1	1422.7
RMS	1029.2	4862.7	1135.2	4794.5	4047.8	2916.3
1/2 P-P	1851.2	8564.8	2076.5	8352.4	6760.5	5246.9
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	218.2	107.1	-4374.1	-4710.4	-308.8	-8.4
2nd	893.9	996.4	-1626.7	-1417.6	-950.6	-1154.8
3rd	-346.5	-9.3	-181.2	111.3	6.5	264.4
4th	-10.4	24	310.1	-39.9	-38	-24.1
5th	-21.6	-39.3	58	-6.1	2.4	-66.3
6th	-1.5	15	18	-5.4	-8	-15.1
7th	-14.1	-12.2	-2.5	-39.5	-21.7	18.2
8th	2.2	0.9	51.8	22	6	14.1
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Pitch Link, lb
	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1
MEAN	-384.8	-609.5	0	-1105.5	-687.3	-118.5
RMS	2491.5	454.7	0	4431.4	408.3	40.8
1/2 P-P	5208.2	761.2	0	7590.7	682.5	72.1
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	2070.6	-1988.7	-334.4	441.7	0	4174.5
2nd	411.1	182.3	-32	308.1	0	-1710.2
3rd	-69.8	-151.9	75.5	30.5	0	197.4
4th	-1772.7	483.3	21.7	49.9	0	44.4
5th	-4.2	-134.4	11.5	13.8	0	-86.1
6th	45.7	-53.8	9.3	-2.3	0	13.2
7th	1.4	7.3	-4.3	-5.9	0	2.2
8th	-15.1	14	0.3	2.6	0	24.2

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570
MEAN	1266.2	1147.8		721.2		0		557.9		182.1	
RMS	1088.5	622		271.5		0		496.7		911.8	
1/2 P-P	2018.7	1148.7		534.7		0		862.6		1563.8	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-24.4	144.2	-0.1	22.1	152.1	-245.8	0	0	315.9	-505	663.4
2nd	-1009.8	-1072.9	-576.8	-615.1	-214.4	-79.2	0	0	64.1	347.8	-899.3
3rd	77.3	-300.7	51.4	-175.9	4.6	-51	0	0	-7.2	47	575.9
4th	-30.5	24.7	-10.1	17.2	11.3	16.7	0	0	27.9	7.4	272.1
5th	-18.3	39.2	-1.9	16.7	20.5	-9.6	0	0	37.4	-32.1	-16.7
6th	12.4	-13	11.7	-1	11.6	12.3	0	0	2.6	19.3	5.7
7th	11	-5.7	11.2	2.9	13.7	17.1	0	0	4.5	24.6	-15.6
8th	6.9	9.1	11	1.2	17.2	-10.8	0	0	7.2	-17.9	-41.6
											20.4
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb
41/29	Blade 1, r/R=0.725		Blade 1, r/R=0.800		Blade 1, r/R=0.900		Blade 1, r/R=0.144		Blade 1, r/R=0.570		Blade 1, r/R=0.400
MEAN	-295.9	-657.1		-768		-182.2		-1620.4		-627.7	
RMS	871.1	694		414.9		5827		2265.2		438.4	
1/2 P-P	1515.6	1365.4		895.9		9470.6		4690.4		708	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	521.8	-944.8	266.3	-770	-154.6	-308.9	-5537.9	5500.6	-1749.1	2042.1	343.5
2nd	-162.1	407.9	-254.3	225.5	-325.4	-10.2	1911.5	1550.8	327.5	132.8	-413.7
3rd	186.6	290.1	231.9	243.6	221	88.7	-94.3	-261	5.9	159.2	-43.6
4th	-47.5	57.2	-42.5	87.6	-13.3	100.6	166.4	8.9	-1494.6	-396.4	290.7
5th	-104.8	70.5	-133.8	99	-107.7	91.2	-14.3	-73.2	-42.9	44.7	-20.8
6th	20.6	-25.1	29.9	-41.3	25.8	-39.5	-25.7	15.6	14.7	-39.1	-72.4
7th	21.2	23.5	48.7	52.7	53.4	45.6	5.8	-7.7	-5.5	50.3	-12.7
8th	5.8	-3	0.5	-26.1	0.3	-28.5	30.9	-1.8	-53.2	-8.6	43.1
											3.7

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
41/29						
MEAN	1165.6	1750.6	1235.3	1223.6	3428.1	1918.8
RMS	1159.6	6576.7	1283	6304.4	5316.5	3655.6
1/2 P-P	2152.9	10670.2	2456.2	9991	8132.8	6333.5
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	139.3	655.9	-5449.7	-7059.7	-80.6	5630.1
2nd	972.7	1044.7	-1796.7	-1725.4	-1160.2	1467.7
3rd	-331.6	-112.6	-200.6	94	285.9	296.5
4th	-27	34.3	301.3	11.5	-47.1	-8.5
5th	-45.5	-32.3	80.8	-15.6	21.7	-28.2
6th	-3.9	10.6	-3	-19.3	-4.2	-13.3
7th	-5.3	-3.7	-2	29.5	-11.4	12.4
8th	6.4	3.1	36.2	-5	3.4	14.5
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
41/29						
MEAN	-151	-634.7	0	12.4	-718.7	-116.3
RMS	2929.4	484.3	0	6213.8	432.4	42.7
1/2 P-P	5669.3	768	0	9930.1	713.9	71.2
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	2591.7	-2601.7	-367.1	463.8	0	5377.4
2nd	447.3	197.8	-26	327.8	0	-1838.3
3rd	-42.2	-40.2	72.2	48	0	208
4th	-1724.7	-0.5	0.8	48.5	0	88.2
5th	61.7	-125.8	13.2	11.7	0	-97.5
6th	21.8	-70.8	8.8	-8.1	0	16.6
7th	-13.4	-48	-8.1	-6.4	0	19.4
8th	-28.6	19	2.5	2.7	0	30.1

RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.144	Flap Bending, in-lb Blade 1, r/R=0.167	Flap Bending, in-lb Blade 1, r/R=0.215	Flap Bending, in-lb Blade 1, r/R=0.280	Flap Bending, in-lb Blade 1, r/R=0.325	Flap Bending, in-lb Blade 1, r/R=0.570
MEAN	-2267.3	-1095.6	-234.4	0	132.4	-283
RMS	1196.3	700.9	344.4	0	593.1	1015.1
1/2 P-P	2256.2	1343.2	636.2	0	1194.9	1842.4
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	103.3	-315.9	97	-304.3	173.9	-382.2
2nd	-553.4	-1496.3	-285.1	-860.8	-75.2	-163.1
3rd	-286.1	220.3	-158.2	109.2	-12.6	-5
4th	-159.9	-96.3	-65	-50.5	39.9	25.4
5th	-6.1	86.8	6.2	24.8	30.3	-56.4
6th	-5.6	-28.3	2.7	-9	11.7	17.9
7th	12.5	-17.6	4	-5.5	-11.2	13.6
8th	-26.4	25.2	6.8	5.4	53.8	-19.4
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800	Flap Bending, in-lb Blade 1, r/R=0.900	Chord Bending, in-lb Blade 1, r/R=0.144	Chord Bending, in-lb Blade 1, r/R=0.570	Torsion, in-lb Blade 1, r/R=0.400
MEAN	-440.4	-524.5	-344.5	-6430	-2281.1	-532.6
RMS	944.1	787.6	511.8	2060.1	1112.4	412.7
1/2 P-P	1821.8	1698	1294.1	3747.1	2758.9	669.1
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	451.8	-795.7	251.8	-587.7	-32	-2238.1
2nd	197.9	651.7	143.8	399.9	0.4	44.4
3rd	505.3	141	556.8	175.7	456.6	85.6
4th	-273.1	-69.4	-345	-22.3	-218.7	50.6
5th	-108.9	255.2	-196	287.2	-206.1	235.7
6th	-3.5	-23.1	18.3	-56.5	-9.6	-72.1
7th	-10.6	2	-25.2	72.5	1.3	61
8th	47.1	-19.7	49.5	-54.2	42.9	-21.6

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
40/34	-2446.1	-3971.6	-2453.4	-4422.5	-1526.1	-311
MEAN	1390.6	2712.6	1485.8	3063.1	2518.6	1720.7
RMS	2800	4792	3072.3	5379	4526.7	3372.6
1/2 P-P						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	579	876	643.9	-3385.4	-1116.9	362.5
2nd	563.6	1501.6	-660.1	-1455.5	-527.1	-1586.8
3rd	233.9	249.1	-139.9	201.9	293.6	-262.6
4th	-140.2	-98.9	180.3	-0.1	-151.6	-111.4
5th	-112.8	-4.9	130.6	56.7	-16.4	-140.7
6th	-5.4	35.7	-1.4	-56.1	2.5	-23.3
7th	-20	-23.1	-29.3	19.5	-17	27
8th	-23.3	46.7	31	117	5.8	56
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
40/34	-1142.7	-532.3	0	-5796.2	-589.6	-124.2
MEAN	1415.3	468	0	2360.9	416.3	58.3
RMS	3002.1	767.7	0	4167.7	690.2	92.8
1/2 P-P						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	1615.2	-146.2	-244.3	519.6	0	-1019.3
2nd	74.2	74.8	9.1	295.1	0	-630.2
3rd	-370.3	-149.8	-6.9	83	0	186.1
4th	-539.1	574.5	12.6	109.9	0	67.4
5th	223.5	-294.5	2.6	26.5	0	-124.9
6th	99.3	-119.3	18.1	4.3	0	17.4
7th	15.1	-4.9	-1.5	-8.4	0	-12.9
8th	-15.1	-48.8	0.7	4.2	0	37.5

RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.144	Flap Bending, in-lb Blade 1, r/R=0.167	Flap Bending, in-lb Blade 1, r/R=0.215	Flap Bending, in-lb Blade 1, r/R=0.280	Flap Bending, in-lb Blade 1, r/R=0.325	Flap Bending, in-lb Blade 1, r/R=0.370	Flap Bending, in-lb Blade 1, r/R=0.570
MEAN	-1000	-312.2	77.2	0	211.9	-245.4	
RMS	1287.7	750.1	366.2	0	619.1	1078.7	
1/2 P-P	2415.5	1437.3	761.1	0	1143.3	1872.3	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	122.5	-217.4	102.2	-249.1	187.9	-391.5	0
2nd	-939	-1465	-514.5	-844.2	-153.9	-145.5	0
3rd	-138	113.5	-75.2	48.3	-9.1	-25.4	0
4th	-128.7	-66.9	-46.9	-37.1	47.5	13.1	0
5th	-47.1	53.5	-10.3	10.4	40.2	-44.6	0
6th	-24.4	-30.6	-0.9	-8.9	28	21.3	0
7th	1.7	-37.1	-2.5	-8.8	-16.6	32.1	0
8th	2.2	31.6	12	4.1	25.9	-36.9	0
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800	Flap Bending, in-lb Blade 1, r/R=0.900	Chord Bending, in-lb Blade 1, r/R=0.144	Chord Bending, in-lb Blade 1, r/R=0.570	Torsion, in-lb Blade 1, r/R=0.400	
MEAN	-473.4	-628	-499.9	-5559.8	-2097.1	-583.6	
RMS	974.7	791.6	522.5	3097.3	1306.2	442.4	
1/2 P-P	1854.5	1574.3	1215.9	6076.2	2749.9	732.8	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	509.5	-923.2	263.6	-679.6	-91.1	-3671.7	322.2
2nd	62.6	625.4	-41.1	369.4	-172.9	25.7	-1424.3
3rd	449.5	74.2	506.8	82.4	423	5.5	1679.9
4th	-291	7.9	-370.1	61.3	-257.3	110.7	-1322.2
5th	-205.3	159.3	-303.3	175.4	-277.6	145.8	183.7
6th	-23.6	-54.4	4.2	-86	-2.1	-88.5	-201.9
7th	-6.4	-1.5	-19	87.9	9.8	90.3	-133.6
8th	32.3	-28	-13.5	-88.7	-20.5	-62.4	305.9

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
40/35	-1129.1	-3146	-1116.1	-3644.8	-800.3	29.2
MEAN	1403.4	3751	1532.8	4081.4	3391.7	2338.7
RMS	2855.8	7019.8	3328	7786.7	6493.6	4342.9
1/2 P-P						
HARMONIC	COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE
1st	492.8	747.1 -560.5	-4732.5	-1076.3	298.1 5260	-142.3 4418.9
2nd	911.5	1449.5 -1279.9	-1719	-897.5	-1533.1 1207.5	924.6 1408
3rd	109.2	112 -163.1	214.2	158.6	-127 203.2	136.8 123.7
4th	-99.1	-71 145.6	-17.3	-104.7	-75.4 103.9	52.6 21.4
5th	-93.7	-45.2 94.6	62.3	26.3	-119 -49.2	187.4 -22.8
6th	26.6	40.6 -46.2	-54.7	-8	-33.6 19.9	92 18.1
7th	-32.5	-15.3 -20.1	-21.7	-0.2	44.2 -27.4	18.4 -24.5
8th	-11.4	35.3 88.5	122.9	24.7	28 87.9	117 74.3
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
40/35	-955.7	-583.4	0	-5076.1	-648.6	-126.1
MEAN	1817.4	499	0	3358.2	443.6	60.4
RMS	3168.9	795.9	0	6554	740	97
1/2 P-P						
HARMONIC	COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE
1st	2263.7	-672.1 -284.9	543.7 0	0 223.7	4174.6 -477.6	-283.8 71.5
2nd	267.9	160.3 14.1	327.8 0	0 -1170.2	-1661.5 18.8	-276.9 4.7
3rd	-340.1	-97.4 24.7	74.8 0	0 177.1	-156.1 44.8	-27.5 0.6
4th	-424.1	461 15.2	70.9 0	0 64.8	69.3 17.9	51.8 0.3
5th	247.9	-340.6 16.5	23.8 0	0 -119.3	-83.7 -18.3	21.2 0.1
6th	33.9	-170.3 20.1	1.7 0	0 22.6	-56.7 -17.3	-1.2 -0.1
7th	9.5	-30.9 -0.8	-10.1 0	0 50.3	19.2 -10.2	1.4 0
8th	-39	-43.9 -0.2	3.8 0	0 95.5	131.9 -2.1	1.6 -0.2

RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.144	Flap Bending, in-lb Blade 1, r/R=0.167	Flap Bending, in-lb Blade 1, r/R=0.215	Flap Bending, in-lb Blade 1, r/R=0.280	Flap Bending, in-lb Blade 1, r/R=0.325	Flap Bending, in-lb Blade 1, r/R=0.570
MEAN	-395.8	72.4	249.2	0	302.4	-153.8
RMS	1318	761.8	348	0	617.9	1112.7
1/2 P-P	2593.8	1529.9	761.3	0	1155.5	1917.8
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-81.8	-172	-23.2	-214.5	143.6	-376.4
2nd	-979.4	-1526.1	-543.5	-877.6	-177	-146.9
3rd	-120.7	-12.7	-63.4	-22.8	-10.1	-36.6
4th	-111.4	-57.7	-39.5	-29.8	43.2	18.3
5th	-54.5	66.5	-13.9	16.2	44.5	-46.3
6th	-11.7	-34.8	4.9	-9.5	24.7	20.8
7th	2.2	-32.1	-0.2	-6.9	-8.9	31.5
8th	4.1	28.8	13.4	1.4	26.3	-36.8
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800	Flap Bending, in-lb Blade 1, r/R=0.900	Chord Bending, in-lb Blade 1, r/R=0.144	Chord Bending, in-lb Blade 1, r/R=0.570	Torsion, in-lb Blade 1, r/R=0.400
MEAN	-460.5	-672.7	-587.7	-4799.2	-2067.4	-607.7
RMS	1026.5	817.9	503.3	3405.1	1513.4	465.3
1/2 P-P	1858.4	1659.2	1205.5	7381.8	3063.8	761.3
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	551.4	-990.6	285.7	-748.4	-10.7	-238
2nd	92.5	671.2	-12.5	402.1	-170	35.8
3rd	425.5	124.7	487	114.3	415.5	5.3
4th	-210.8	15	-259.4	67.7	-154.1	113.8
5th	-241.9	193.1	-336.1	225.6	-289.5	190.2
6th	-7.5	-59.9	19	-82.9	6.7	-76
7th	4.8	4.9	3.4	89	26.9	84.6
8th	33.1	-22.9	-2.3	-69.7	-8.8	-44.5

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
40/36	-499.4	-2397.5	-470.6	-3010.1	-247.5	236.5
MEAN	1357.7	4071.8	1478.4	4344.3	3619.9	2529.9
RMS	2944	8076.1	3380.7	8444.1	6949.5	4600.9
1/2 P-P						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	444.1	514.1	-1475.9	-4996.9	-867.9	239.1
2nd	940.1	1485.9	-1443.3	-1809.3	-946.5	1353.5
3rd	-15.7	96.3	-160.5	232.2	130.1	-10.2
4th	-86.7	-54.4	143	1.4	-94	-58.7
5th	-99.1	-48.4	106.2	52.3	37.8	-124.3
6th	9.6	35.7	-44.7	-72.1	5.4	-28.9
7th	-29.7	-12.2	-26.5	-18	-4.9	37.3
8th	2.6	30.7	138.5	82.6	28.7	23.7
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
40/36						
MEAN	-896	-608.3	0	-4338.9	-677	-127.8
RMS	2029.3	518.5	0	3688.6	464.7	57.1
1/2 P-P	3666.7	838	0	7574	770.6	94.9
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	2337.3	-1059.3	-309.9	553.6	0	1251.7
2nd	267.4	175.5	10.8	349.3	0	-1315.5
3rd	-378.8	-132.2	30.5	61.5	0	187.5
4th	-720.1	659.5	10	76.6	0	72.7
5th	212.4	-374.2	21.7	23.4	0	-162.7
6th	30.3	-213.3	20.9	-7.1	0	8
7th	-22.2	-45.4	-8.9	-10	0	51.4
8th	-65.1	-22.2	1.5	5.4	0	0

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
		Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.370	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570
MEAN	208.9	448	401.4	0	0	356.7	-96.1	-613.9	751	-1008.3	
RMS	1285	738.7	328.3	0	0	612.1	1108.2	445.5	48	878.1	
1/2 P-P	2139.2	1326.6	609.1	0	0	1026.2	1804.8	57.2	-35.4	300.6	114.5
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-358.9	-120.9	-193.5	-181.1	76.6	-373.2	0	0	328.9	-613.9	751
2nd	-1005.8	-1445.6	-563.2	-829.2	-92.6	-126	0	0	94.3	445.5	48
3rd	-102.2	-111.1	-51.3	-78.5	-12.5	-47.4	0	0	57.2	-35.4	300.6
4th	-89.1	-40.4	-31.4	-18.8	33.3	21.3	0	0	92.4	43.8	-6.7
5th	-56.7	84.6	-14	25.3	47.7	-47.6	0	0	107.5	-123.8	-1.1
6th	-9	-40.3	9.2	-12.8	30.7	19.9	0	0	37	66.5	-32.9
7th	4.9	-29.1	4.5	-8.7	0.6	24.6	0	0	-12.2	51.5	28.1
8th	23.6	19.1	13.5	-1.9	-0.9	-30.9	0	0	-27.3	-40.9	20.6
RUN/POINT	Flap Bending, in-lb	Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
40/37	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.400	Blade 1, r/R=0.400	Blade 1, r/R=0.400
MEAN	-439.2	-695.1	-651.5	-4232.8	-2007.7	-630.5					
RMS	1042.8	842.7	514.8	3736.5	1785.5	483.8					
1/2 P-P	1914.3	1730	1166.4	6751.1	3556.4	750.1					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	579.6	-1025.3	302.6	-794.9	-122.3	-273.1	-3909.1	2555.8	-1574.8	1345.5	320.8
2nd	-19.5	648.3	-117.9	390.3	-242	39.2	1721	1713	286.8	-32.8	9.4
3rd	400.6	193.5	460.1	177.6	395.7	41.5	-170.3	-177.6	274.9	239	-52.1
4th	-163.4	26.1	-196.4	70.9	-101.6	110.1	136.4	2.3	-1094.9	570.6	-15
5th	-262.2	230.1	-349.6	280.1	-287.3	236.4	29.3	-114.5	-221.5	158.5	-43.5
6th	-6.5	-72.7	16.6	-98.5	5.4	-82.4	45.9	92.2	1.9	-191.9	12.5
7th	15	8	25.8	67.3	44.6	56.5	-5.1	-58.5	8.1	93.1	-18.2
8th	17.1	-12.9	-55.8	-46.9	-67	-30.3	109.3	-2.1	-135.7	15.6	3.8
											9.6

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
40/37	120	-1857	159.1	-2456.6	253	445.9
MEAN	1260.5	4401.4	1356.3	4555.3	3822.7	2752.2
RMS	2174.4	7619.7	2538.6	7712.7	6339.2	4670.6
1/2 P-P						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	390.5	246	-2554.4	-5123.3	-551.8	-2234.3
2nd	954.2	1411.2	-1622.5	-1755.3	-970.3	1572.8
3rd	-133.8	80.6	-182.8	201.4	109.8	91.1
4th	-70.3	-38.7	210.1	-20	-79.3	-54.2
5th	-119.6	-55.4	109.5	35.5	33.8	-143.6
6th	2.3	36.6	-29.2	-75.5	2.6	-29.4
7th	-31.1	-15.2	-55.1	-18.1	-13.7	33.7
8th	17.4	23	101.2	-4.1	27.4	18.2
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
40/37	-807.5	-628	0	-3783.3	-705.2	-127.1
MEAN	2268	532.1	0	3989	480.8	51.2
RMS	4062	830.7	0	7116.4	758.8	80.5
1/2 P-P						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	2392.2	-1512	-336.6	562.5	0	2392.6
2nd	369.5	158.7	6.2	351.7	0	-1546.7
3rd	-290	-163.9	37.2	52.5	0	213.5
4th	-1061	671	-11.6	75.1	0	37.9
5th	135.5	-319.1	31.1	22.6	0	-148.5
6th	19.5	-205.8	18.9	-11.2	0	-2.4
7th	-20.8	-40.3	-17.2	-4.9	0	1.4
8th	-49.5	19.5	3.9	7.6	0	0

RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.144	Flap Bending, in-lb Blade 1, r/R=0.167	Flap Bending, in-lb Blade 1, r/R=0.215	Flap Bending, in-lb Blade 1, r/R=0.280	Flap Bending, in-lb Blade 1, r/R=0.325	Flap Bending, in-lb Blade 1, r/R=0.570
MEAN	-2002.7	-930	-162	0	153.3	-326.7
RMS	1448.6	815.3	276.4	0	627.4	1155.4
1/2 P-P	2574.8	1500	677	0	1250.7	2045.8
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-854.6	188.7	-481.4	-9.9	-50.3	-275.6
2nd	-693.9	-1657.6	-369.5	-949.9	-111.4	-167.3
3rd	-263.8	197.3	-150.2	93.7	-23.5	-15.1
4th	-86.8	-83.2	-23.7	-38.4	44.9	32.2
5th	-65.5	96.8	-16.6	31.1	53.4	-51.8
6th	-23.1	-22.6	-1	-1.3	26.5	29.3
7th	0.2	-31.5	-0.7	-10.4	-7.6	22.6
8th	13	23.1	13.9	5	14.9	-24.1
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800	Flap Bending, in-lb Blade 1, r/R=0.900	Chord Bending, in-lb Blade 1, r/R=0.144	Chord Bending, in-lb Blade 1, r/R=0.570	Torsion, in-lb Blade 1, r/R=0.400
MEAN	-475.5	-563.9	-370.6	-6083.9	-2190.4	-552.2
RMS	1062.5	862.3	534.8	1719.6	1194.7	436.9
1/2 P-P	2132.5	1794.5	1384.1	3515.8	3296.1	718.6
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	485	-901	272.9	-656.6	-29.5	-188.2
2nd	291	797	195.8	512.2	-2.1	98.4
3rd	517.4	39.3	572.4	38.4	462.1	-42.9
4th	-157.8	-97.9	-187.4	-62	-79.2	2.9
5th	-269.1	225.3	-383.7	267.5	-320.5	229.9
6th	-15	-33.1	9.3	-57.4	-15.4	-56.1
7th	-13.7	-4.4	-12.7	69.4	9.8	55.6
8th	23.8	-31.2	-41.2	-53.8	-41.6	-24.1

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
MEAN	-2114	-3714.6	-2104.9	-4123.3	-1263.4	-166.4	
RMS	1330	2017.8	1374.8	2353.1	1924.9	1292	
1/2 P-P	2249.6	3792.9	2479.8	4212.2	3535	2842.3	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	45.8	-153.8	1570	-1611.7	-50	-143	1982.2
2nd	683.4	1687.1	-779.4	-1470.5	-673.6	-1753.9	805.9
3rd	218.9	234.5	-105.7	217.7	266	-232	214.5
4th	-60.7	-87.2	114.9	-37.2	-64.9	-102.3	13.7
5th	-144.6	-59.6	112.1	115.4	46.3	-150.8	-86
6th	23.2	24	-7.5	-24.9	-21.5	-19	36.1
7th	-29.5	-12.2	-62	-21.2	-7.2	33.6	-50.9
8th	-2.9	24.2	104.9	95.2	1	47.2	117.7
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1	
MEAN	-1053.7	-546.4	0	-5530.4	-608.7	-122.9	
RMS	1257.5	484.4	0	1887.4	438.8	52.3	
1/2 P-P	2901	802.3	0	3784.6	718.7	83.2	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	1076.3	-3.9	-256.8	538.5	0	0	-1907.4
2nd	29.9	-25.2	20.5	304.9	0	0	-726.6
3rd	-482.1	-101.7	-45.2	58.2	0	0	148.1
4th	-122.7	944	-15	107.8	0	0	14.9
5th	443.8	-168.2	11.8	30.6	0	0	-81.9
6th	47.9	-109.6	23	-5.4	0	0	5.9
7th	29.6	-26.5	-2.6	-8.7	0	0	-12.1
8th	-48.6	-48.1	3.1	3.6	0	0	100.6

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb							
4/0/39	Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.570	Blade 1, r/R=0.570
MEAN	-1135	-391	48.5	0	0	0	0	218.6	-239.7		
RMS	1370	792.1	383	0	0	0	0	653.1	1116.8		
I/2 P-P	2583.3	1523.8	735.4	0	0	0	0	1132.6	1909.3		
HARMONIC											
1st	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
2nd	-1011.1	-1563.5	-42.7	297.8	-146.7	281.7	-358.3	0	0	389.1	-622.7
3rd	-96.4	60.4	-53.1	19.1	-897.3	-180.5	-149.6	0	0	123.8	716.7
4th	-64.5	-65.5	-10.8	-33	49.8	-27.3	0	0	0	56.3	-970.7
5th	-112.5	85.5	-35.6	25.2	68.1	16.6	0	0	94.9	50.6	189.4
6th	-23	-36.1	-1.1	-11.6	24.8	-47.9	0	0	176.9	-120.6	953.3
7th	-2	-28.5	-3.4	-7.6	-10.6	21.4	0	0	38.1	60.7	-18.6
8th	8.5	31.6	13.3	-0.8	18	26.1	0	0	-26.3	56.1	24.2
						-44.9	0	0	1.3	48.5	35.8
									-63.8	-42	-31.7
									-14	-63.2	-63.2
										79.1	11.7
RUN/POINT											
4/0/39	Flap Bending, in-lb	Blade 1, r/R=0.725	Flap Bending, in-lb	Blade 1, r/R=0.800	Flap Bending, in-lb	Blade 1, r/R=0.900	Flap Bending, in-lb	Blade 1, r/R=0.900	Chord Bending, in-lb	Blade 1, r/R=0.144	Chord Bending, in-lb
MEAN	-449.7	-605.2	-605.2	-477.2	-477.2	-4813.7	-4813.7	-4813.7	-1999	-608.1	
RMS	1019.8	836.1	836.1	544.7	544.7	3583.1	3583.1	3583.1	1427.7	465.5	
I/2 P-P	1957.5	1763.9	1763.9	1406.2	1406.2	6617.1	6617.1	6617.1	3427.9	736.6	
HARMONIC											
1st	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
2nd	150.9	703	-923.8	266.7	-685.5	-102.5	-208.7	-4407.5	-1484.3	556.7	261.8
3rd	430.4	92.7	31.1	428.7	-153.9	51.8	1405.7	1831.4	80.9	-23.1	-520.1
4th	-182.2	-23	-215.9	74.6	405.9	-31.7	-214.3	-92.4	381.4	-2.9	32.4
5th	-381.4	201.7	-515.4	19.8	-108.3	69.3	45.9	17.8	-458.6	-7.3	-47
6th	-25.1	-53.5	-27.8	-77.9	-53.9	-417.5	224.2	137.2	-132.5	158.8	-292
7th	-2.7	2.7	-6	83.9	11.7	39.1	72.6	52.8	-132.2	21.8	-4.7
8th	22.2	33.8	-37.1	-71.8	-39	73.5	9.3	-45.6	-8.4	75.1	-10.5
						42.5	197.2	53.4	-221.2	9.1	-23.3
									-45	1.6	-11.7

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
40/39	-1260.8	-2524.6	-1257.1	-3096.1	-364	252.7
MEAN	1534.5	4250.5	1706.7	4647.3	3851.1	2588.3
RMS	3226.3	7690.7	3495.9	8130.2	6799.3	4748
1/2 P-P						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	305.3	1085.5	331.7	-5499	-1441	133.7
2nd	960.9	1544.5	-1347.8	-1863.8	-981.3	-1627
3rd	75.1	87.9	-130.8	220.5	109.5	-91
4th	-37	-60.6	113.1	3.3	-44.7	-65.4
5th	-152.2	-107.9	137.3	142.2	99.8	-136.1
6th	16.6	35.5	-42	-75.9	-0.8	-31
7th	-30.5	-16.6	-48.6	-28.7	-5.1	35.4
8th	12	27.6	163.7	26.2	34.5	29.7
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
40/39	-832.8	-606.1	0	-4329	-670	-134.7
MEAN	2018.6	519.2	0	3853.4	466.9	65.3
RMS	3603.6	813.9	0	6802.1	737.4	99.6
1/2 P-P						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	2464	-439.7	-280.2	582.4	0	-652.3
2nd	219.8	194.2	33.5	330.8	0	-1281.7
3rd	-383.3	-64.7	1.6	36.8	0	125.6
4th	-529.1	897.5	-8.6	80.2	0	1
5th	491.3	-294.9	18.1	32.4	0	-124.8
6th	92.5	-200.1	27.5	-7.6	0	19.2
7th	8.5	-28.9	-4.5	-11.4	0	16.7
8th	-67.9	-14.9	3.2	3.7	0	0

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
RUN/POINT	40/40	Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.570	Blade 1, r/R=0.144	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.570	
MEAN	-460.6	30.6	219.9	0	0	281.2	-161.2						
RMS	1298.6	748.2	373.3	0	0	647.2	1100.3						
1/2 P-P	2305.1	1349.9	715.2	0	0	1128	1871.6						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	222.3	-77.8	162.9	-169.1	228.2	-382.3	0	0	377.5	-639.6	728	-988.3	
2nd	-1067.1	-1436.5	-594.4	-820.5	-197.3	118.5	0	0	107.9	449.4	104.3	906.3	
3rd	-61.3	-117.4	-29.9	-80	-14	-38.8	0	0	33.7	-22	255.3	114.2	
4th	-36.8	-61.1	0.8	-31.4	42.5	13.4	0	0	71	42.8	-16.2	32.6	
5th	-113.1	81.7	-34.5	25.7	73.1	-40.9	0	0	190	-104.6	-7	24.7	
6th	-3.5	-35.4	8.9	-10.8	24.4	20.3	0	0	30	58.7	-21.8	-31.3	
7th	10.7	-25.4	5.8	-4.8	-2.1	27.5	0	0	-23.2	52.8	36	-64.8	
8th	17	26.4	15.8	-2.8	13.8	-43.6	0	0	-5	-60.3	-7.7	71.2	
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800	Flap Bending, in-lb Blade 1, r/R=0.900	Flap Bending, in-lb Blade 1, r/R=0.900	Flap Bending, in-lb Blade 1, r/R=0.900	Chord Bending, in-lb Blade 1, r/R=0.144	Torsion, in-lb Blade 1, r/R=0.570	Torsion, in-lb Blade 1, r/R=0.570	Torsion, in-lb Blade 1, r/R=0.570				
MEAN	-424.4	-630.9	-555.1	-4116.4	-1930.1								
RMS	1018.4	832.7	534	3835.6	1666.2								
1/2 P-P	1948.2	1739.4	1279.7	7147.2	3956.3								
757.7													
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	538	-953.2	272.5	-718.8	-127.5	-231.3	-4754.6	551.3	-1640	901	285.9	-541.6	
2nd	33.7	674	-85.6	411.6	-238.5	55.2	1696.5	1740.4	200	-28.4	26.7	305.4	
3rd	380.1	179.4	434.7	139.3	362.9	-2.1	-200.1	-135.6	249.7	74.8	-26.5	8.2	
4th	-134	-6.7	-155.4	26.6	-67.8	65.5	73.4	22.4	-1032.1	505.1	-16.7	78.2	
5th	-409.4	189.1	-534.7	237.4	-419.2	213	89.4	-141.1	-377.9	123.3	-39.5	-24	
6th	-14.4	-55.2	-20.7	-66	-45.8	-50.9	14.2	93	66.2	-168.4	18.4	-15.6	
7th	13	9.4	6.6	90.5	14.6	82.4	17.3	-18.6	-18.4	52.4	14.7	5.9	
8th	23	-22.5	-37.1	-56.7	-47.1	-32.1	147.5	47.7	-185.5	-37.2	2.7	2.6	

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
40/40	-549.7	-1880.8	-548.7	-2426.2	248.2	535.7
MEAN	1414.3	4549.3	1599.3	4942.3	4115.6	2838.3
RMS	2899.9	8365.6	3265.1	8702.1	7105.1	5088.6
1/2 P-P						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	332.5	842.5	-713.9	-5871.8	-1223	140.4
2nd	979.6	1437.2	-1570.2	-1833.8	-1040.4	-1542.4
3rd	-132.8	72.9	-124.4	193.3	68	72.9
4th	-25.7	-58	188.7	48.9	-42	-73.2
5th	-156.1	-127.9	135.2	122.5	104.4	-149.2
6th	5.5	32.8	-24.2	-85.3	-5.9	-31.3
7th	-21.8	-20.6	-2.2	-3.2	-18	25.9
8th	18.9	24.8	124.1	30.4	32.1	28.2
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
40/40	-710.8	-638.8	0	-3611.4	-708.5	-137.5
MEAN	2265	539.7	0	4145.1	488.1	62.5
RMS	4140.8	831.3	0	7439.8	760.8	97.4
1/2 P-P						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	2645.9	-899	-304.8	600.5	0	522.9
2nd	336.8	199.9	30.6	342.2	0	-1596.7
3rd	-273.8	-34.7	15.6	18.6	0	132.2
4th	-1083.5	637	-16.1	84.2	0	-16.7
5th	393.2	-296.3	22.4	31.8	0	-159.4
6th	100.2	-200	24.7	-12.2	0	0
7th	-31.8	-36.9	-9.7	-7	0	0
8th	-54.9	-3.7	5.9	4.5	0	0

RUN/POINT		Flap Bending, in-lb						
		Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.570	Blade 1, r/R=0.570
MEAN	418.3	574.7	442.7	0	0	346.3	-122.6	
RMS	1600.2	910.5	328.6	0	0	676.1	1227.7	
1/2 P-P	2997.4	1816.3	799.3	0	0	1196.9	2130.4	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-1066.6	273.1	-620.9	42	-82.4	-317.1	0	0
2nd	-1135	-1546.9	-642.5	-884.3	-231.7	-120.4	0	340.1
3rd	-97.5	-222.2	-49.2	-141.8	-24	-56.3	0	-658.5
4th	-59.5	-43.9	-13.7	-15.7	36.2	33.2	0	785.6
5th	-70.1	155.7	-17.1	52.3	63.4	-79.8	0	-309.7
6th	-16.4	-29.7	3.8	-8.7	27.1	16.7	0	498.8
7th	7.1	-37.2	4.7	-4.4	0	46.3	0	30.6
8th	37.7	33.1	23.5	3.4	2.2	-41.9	0	171.4
1st	-692.2	-635.8	-692.2	-635.8	-3777	-1896.9	-10.5	-1095.9
2nd	991.1	628.6	991.1	628.6	2971.8	2139.1	-96.3	1029.2
3rd	2357.2	1528.8	2357.2	1528.8	6549.7	4749.3	39.5	43
4th								
5th								
6th								
7th								
8th								
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	609.8	-1107.6	324.3	-853	-122.8	-297.1	-2336	2252.9
2nd	-21.5	789.8	-149.5	492.2	-300.2	88.1	1966.8	1489.5
3rd	462.4	218.9	530.7	159.1	437.8	-6.2	-210.8	335
4th	-122.1	-13.5	-129.8	15.4	-35.2	49.7	132.1	-237.4
5th	-364.4	407.9	-472.1	499.1	-357.8	387.3	-20.8	344.1
6th	-34.7	-62.8	-45.6	-74.2	-52.9	-43.8	25.6	299.6
7th	7.3	11.3	4.6	109	12.1	105.7	6.8	-55.1
8th	20.8	-20.1	-72.1	-65.1	-87.7	-53.8	273.9	-1525.7
1st								
2nd								
3rd								
4th								
5th								
6th								
7th								
8th								
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	609.8	-1107.6	324.3	-853	-122.8	-297.1	-2336	2252.9
2nd	-21.5	789.8	-149.5	492.2	-300.2	88.1	1966.8	1489.5
3rd	462.4	218.9	530.7	159.1	437.8	-6.2	-210.8	335
4th	-122.1	-13.5	-129.8	15.4	-35.2	49.7	132.1	-237.4
5th	-364.4	407.9	-472.1	499.1	-357.8	387.3	-20.8	344.1
6th	-34.7	-62.8	-45.6	-74.2	-52.9	-43.8	25.6	299.6
7th	7.3	11.3	4.6	109	12.1	105.7	6.8	-55.1
8th	20.8	-20.1	-72.1	-65.1	-87.7	-53.8	273.9	-1525.7
1st								
2nd								
3rd								
4th								
5th								
6th								
7th								
8th								
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	609.8	-1107.6	324.3	-853	-122.8	-297.1	-2336	2252.9
2nd	-21.5	789.8	-149.5	492.2	-300.2	88.1	1966.8	1489.5
3rd	462.4	218.9	530.7	159.1	437.8	-6.2	-210.8	335
4th	-122.1	-13.5	-129.8	15.4	-35.2	49.7	132.1	-237.4
5th	-364.4	407.9	-472.1	499.1	-357.8	387.3	-20.8	344.1
6th	-34.7	-62.8	-45.6	-74.2	-52.9	-43.8	25.6	299.6
7th	7.3	11.3	4.6	109	12.1	105.7	6.8	-55.1
8th	20.8	-20.1	-72.1	-65.1	-87.7	-53.8	273.9	-1525.7
1st								
2nd								
3rd								
4th								
5th								
6th								
7th								
8th								
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	609.8	-1107.6	324.3	-853	-122.8	-297.1	-2336	2252.9
2nd	-21.5	789.8	-149.5	492.2	-300.2	88.1	1966.8	1489.5
3rd	462.4	218.9	530.7	159.1	437.8	-6.2	-210.8	335
4th	-122.1	-13.5	-129.8	15.4	-35.2	49.7	132.1	-237.4
5th	-364.4	407.9	-472.1	499.1	-357.8	387.3	-20.8	344.1
6th	-34.7	-62.8	-45.6	-74.2	-52.9	-43.8	25.6	299.6
7th	7.3	11.3	4.6	109	12.1	105.7	6.8	-55.1
8th	20.8	-20.1	-72.1	-65.1	-87.7	-53.8	273.9	-1525.7
1st								
2nd								
3rd								
4th								
5th								
6th								
7th								
8th								
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	609.8	-1107.6	324.3	-853	-122.8	-297.1	-2336	2252.9
2nd	-21.5	789.8	-149.5	492.2	-300.2	88.1	1966.8	1489.5
3rd	462.4	218.9	530.7	159.1	437.8	-6.2	-210.8	335
4th	-122.1	-13.5	-129.8	15.4	-35.2	49.7	132.1	-237.4
5th	-364.4	407.9	-472.1	499.1	-357.8	387.3	-20.8	344.1
6th	-34.7	-62.8	-45.6	-74.2	-52.9	-43.8	25.6	299.6
7th	7.3	11.3	4.6	109	12.1	105.7	6.8	-55.1
8th	20.8	-20.1	-72.1	-65.1	-87.7	-53.8	273.9	-1525.7
1st								
2nd								
3rd								
4th								
5th								
6th								
7th								
8th								
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	609.8	-1107.6	324.3	-853	-122.8	-297.1	-2336	2252.9
2nd	-21.5	789.8	-149.5	492.2	-300.2	88.1	1966.8	1489.5
3rd	462.4	218.9	530.7	159.1	437.8	-6.2	-210.8	335
4th	-122.1	-13.5	-129.8	15.4	-35.2	49.7	132.1	-237.4
5th	-364.4	407.9	-472.1	499.1	-357.8	387.3	-20.8	344.1
6th	-34.7	-62.8	-45.6	-74.2	-52.9	-43.8	25.6	299.6
7th	7.3	11.3	4.6	109	12.1	105.7	6.8	-55.1
8th	20.8	-20.1	-72.1	-65.1	-87.7	-53.8	273.9	-1525.7
1st								
2nd								
3rd								
4th								
5th								
6th								
7th								
8th								
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	609.8	-1107.6	324.3	-853	-122.8	-297.1	-2336	2252.9
2nd	-21.5	789.8	-149.5	492.2	-300.2	88.1	1966.8	1489.5
3rd	462.4	218.9	530.7	159.1	437.8	-6.2	-210.8	335
4th	-122.1	-13.5	-129.8	15.4	-35.2	49.7	132.1	-237.4
5th	-364.4	407.9	-472.1	499.1	-357.8	387.3	-20.8	344.1
6th	-34.7	-62.8	-45.6	-74.2	-52.9	-43.8	25.6	299.6
7th	7.3	11.3	4.6	109	12.1	105.7	6.8	-55.1
8th	20.8	-20.1	-72.1	-65.1	-87.7	-53.8	273.9	-1525.7
1st								
2nd								
3rd								
4th								
5th								
6th								
7th								
8th								
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	609.8	-1107.6	324.3	-853	-122.8	-297.1	-2336	2252.9
2nd	-21.5	789.8	-149.5	492.2	-300.2	88.1	1966.8	1489.5
3rd	462.4	218.9	530.7	159.1	437.8	-6.2	-210.8	335
4th	-122.1	-13.5	-129.8	15.4	-35.2	49.7	132.1	-237.4
5th	-364.4	407.9	-472.1	499.1	-357.8	387.3	-20.8	344.1
6th	-34.7	-62.8	-45.6	-74.2	-52.9	-43.8	25.6	299.6
7th	7.3	11.3	4.6	109	12.1	105.7	6.8	-55.1
8th	20.8	-20.1	-72.1	-65.1	-87.7	-53.8	273.9	-1525.7
1st								
2nd								
3rd								
4th								
5th								
6th								
7th								
8th								
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	609.8	-1107.6	324.3	-853	-122.8	-297.1	-2336	2252.9
2nd	-21.5	789.8	-149.5	492.2	-300.2	88.1	1966.8	1489.5
3rd	462.4	218.9	530.7	159.1	437.8	-6.2	-210.8	335
4th	-122.1	-13.5	-129.8	1				

RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
40/41	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	372.4	-1603.3	399.1	-2011.9	632.3	658.4	
RMS	1398.9	3575.1	1471	3755.4	3172.8	2588.9	
1/2 P-P	2473.2	7340.8	2512.8	7370.1	6014.4	4914.4	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-37.4	-422.4	-2159.3	-3738.3	150.5	-215.4	4118.5
2nd	1055.3	1544.5	-1826.5	-1633.9	-1125.3	-1658.2	1907.5
3rd	-251.3	103.5	-225.7	244.6	112.2	195.3	236.9
4th	-39.4	-50.4	251.1	-109.3	-53.8	-69.6	53
5th	-220.7	-67	198.5	19.4	49.4	-226.6	68.3
6th	12.9	29.9	-20.8	-77.5	-18.3	-28.5	52.9
7th	-40.8	-10.9	-57.1	7.2	-15	40.6	-33.3
8th	42.6	36.6	268	50.6	44.8	45.5	285.2
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Pitch Link, lb	
40/41	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1	
MEAN	-666.3	-652	0	-3298.5	-733	-120.2	
RMS	2477	576.8	0	3135.8	525.9	56.5	
1/2 P-P	5329.3	926	0	6423	839.9	95.5	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	2040.5	-1562.1	-357.1	609.1	0	1972.3	2996.3
2nd	467.3	-36.5	18.4	381.3	0	-1825.2	-1604.7
3rd	-332.7	-285.7	36.3	34.4	0	244.9	-166.2
4th	-1354.7	1501	-21.5	112.9	0	-21.3	13.3
5th	136.5	-565.9	51	21.6	0	-233.4	-20.1
6th	41.6	-228.5	14.7	-25.1	0	5.8	-93.3
7th	-41.3	-83.7	-9.3	4.2	0	25.3	21
8th	-99.2	-5.6	10	-2.6	0	0	270.4

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
40/42													
MEAN	-2370.5		-1163.2		-281.1		0		84.7		-393.2		
RMS	1434.9		827.9		386.9		0		727.4		1229.9		
1/2 P-P	2528.8		1475.4		773.5		0		1307.6		2174.5		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-185.5	-296.4	-69.8	-318.1	134.7	-442.6	0	0	380.4	-674.4	718.7	-1057.5	
2nd	-915.3	-1711.7	-495.2	-977.2	-147.7	-158.5	0	0	143.8	516.5	290.7	1077.8	
3rd	-190.5	196.8	-112.8	94.8	-22.9	-16.3	0	0	86	-150.1	351.6	-132.3	
4th	-76.4	-78.2	-16	-35.9	48.3	27.8	0	0	101	79.1	23	-13.9	
5th	-174.5	140.7	-59.7	51.1	95.6	-56.1	0	0	272.1	-177.3	-8.7	47.3	
6th	-29.5	-24.5	-4.8	-1.4	24.9	26.2	0	0	42.5	52.8	-49	-30.2	
7th	4	-29.5	1.9	-11	-5	15.7	0	0	-20.9	47.3	30.2	-60.7	
8th	-9	15.5	6.3	2.1	26	-14.9	0	0	25.6	-22.8	-23.3	19.7	
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725		Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Flap Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400		
40/42													
MEAN	-457.6		-509.3		-297.7		-5438.7		-2041.8		-586.4		
RMS	1153.8		977.6		622.2		2351.5		1388.5		494.7		
1/2 P-P	2284.2		2023.2		1505.2		4874.6		3630.1		758.1		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	503.3	-968.8	276	-682.5	-35.7	-169.4	-2002	-1517.3	-906.5	461.1	242.5	-565.4	
2nd	295.4	817.2	156.7	528.1	-77	114	1284.4	1544.8	-90.3	-208.7	55	295.3	
3rd	528.4	6.6	593.2	-17.9	460.8	-115.8	-199.7	-2.9	500.7	-29.1	36.2	-19.6	
4th	-180.3	-94.5	-186.7	-52	-57.2	-8.7	77	38.8	-537	1159.9	-25.5	114.2	
5th	-535.9	278.4	-705.5	365.2	-528.1	330.6	232.4	-97.7	-799.1	7.8	-37.6	-26.4	
6th	-13.6	-30.6	-23.5	-55.8	-84.9	-20.8	12.9	62.5	138.7	-147.7	26	-19.9	
7th	-4.7	9.9	15.7	76.7	4.4	43.8	29.1	-2.3	-26.3	39.8	19	12	
8th	17	-26.8	-2.6	-0.4	22.2	15.9	36.3	42.9	-71.3	-40.5	12	18	

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
MEAN	-2495.9	-3318.6	-2500	-3680.7	-915	81
RMS	1504.2	2832.9	1561.5	3225.3	2656.9	1786.9
1/2 P-P	3071.8	5487	3321.9	5810.4	4851	3790.7
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	532.7	489.9	1289.8	-3080	-805.6	378
2nd	893.2	1705.2	-1235.1	-1547.2	-852.7	-1760.8
3rd	230.7	166.4	-33.1	241.5	181.4	-216.6
4th	-52.1	-82	116.6	-43.7	-52.9	-55.9
5th	-193.9	-171.5	150.6	243.9	130.6	-160.4
6th	26.9	28.8	-13.1	-52	-9.5	-27.9
7th	-37	-9.2	-8.9	32	-1.7	34.8
8th	-13.8	11.4	17.3	38.3	13.7	21.1
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
MEAN	-867.7	-583.9	0	-4963.2	-637.6	-136.6
RMS	1575.4	546.4	0	2453.5	489.9	71.3
1/2 P-P	3463.1	843.4	0	4929.8	760.5	113.7
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	1572.2	-158.1	-263.3	627	0	-1591.5
2nd	84.1	-21.3	53	323.2	0	-1188.3
3rd	-481.4	-15.2	-37.8	57.9	0	48
4th	-319.6	1098	-45.9	124.5	0	-38.9
5th	812.2	-153	17.8	34.7	0	-105.5
6th	114.5	-187.1	26.2	-16.7	0	32
7th	-48.3	-57.1	-18.9	-12.4	0	23.3
8th	-40.7	18.2	0.3	21.7	0	0

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb							
		Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.370	Blade 1, r/R=0.400	Blade 1, r/R=0.570	Blade 1, r/R=0.570	
MEAN	-1171.1	-416.8	17.9	0	0	186.1	-260.9				
RMS	1453.5	851.4	453.7	0	0	727.7	1150.6				
1/2 P-P	2654.6	1536.8	826.9	0	0	1327.4	1935.6				
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	525.6	-314.1	351.9	-328.7	314.7	-473.2	0	0	421.5	-704.3	
2nd	-1183.8	-1524.6	657.4	-868	-214.9	-121.8	0	0	126.4	481.7	
3rd	-100.7	-109.8	-56.3	-74	-23.3	-32.9	0	0	41.5	-22.7	
4th	-25.6	-79.2	8.5	-39.1	42.7	14.2	0	0	62.9	46.4	
5th	-190.8	113.8	-63.3	41.7	104.9	-42.2	0	0	300.3	-133.2	
6th	-21.6	-42.6	-0.9	-11.2	22.7	25.7	0	0	35	64.7	
7th	-6.1	-27.8	-4.3	-8.7	-6.3	21.9	0	0	-19.9	52.2	
8th	-2.7	16.2	5.3	0.6	15.2	-19.5	0	0	8.3	-29.7	
RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
40/43	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.400	Blade 1, r/R=0.400	
MEAN	-428.9	-570.4	-444.4	-4128.9	-1844.2	-1848.1	4121.6				
RMS	1076.5	927.1	615.2	4082.5					-651.9		
1/2 P-P	2209.3	2012.5	1432.4	7532.5					521		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	522.5	-914.2	263.9	-654.3	-111.9	-177.6	-5057.4	-430.8	-1654.7	730.3	
2nd	76.3	706.6	-70.3	434.3	-250.9	63.5	1937.8	1857	162.2	-19.8	
3rd	438.3	185.6	500	130.5	395.2	-31.3	-178.5	-41.3	308.3	4.7	
4th	-134.1	-27	-130.8	4	-32.3	24.1	100.1	50.6	-1360.6	833.4	
5th	-596.4	250	-760.1	327.2	-564.1	289.9	213.1	-154.7	696	122	
6th	-12.6	-54	-35.8	-67.1	-88.4	-26.8	45	124.9	99	-210.5	
7th	11.4	18.2	11.7	86.2	-10.8	59.4	0.2	-32.6	17.8	20.7	
8th	18	-10.3	-24.5	-6.7	-25.3	2.8	21.9	-34.9	18.1	-23.7	

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
MEAN	-1315.7	-2001.2	-1286.6	-2492.2	154.9	577.4
RMS	1682.6	4864.6	1796.9	5103.3	4234.4	2941.4
1/2 P-P	3433.5	8686.5	354.2	8628.1	7072.3	5169.9
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	596	1263.7	172.2	-6326.5	-1548.4	406.9
2nd	1125.7	1513.3	-1845	-1869.9	-1123.5	-1582.8
3rd	-92.9	108.8	-82.6	203.7	95.1	76.6
4th	-10.7	-60	175.5	21.7	-19	-57.4
5th	-200.8	-180.8	159	198.6	160.3	-166.6
6th	16.3	39.2	-37.7	-100.2	-3.7	-34.8
7th	-31.6	-13.2	-43.6	-5	1.6	28.1
8th	-15.6	12.7	-9.2	47.2	19.1	18.6
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.400	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
MEAN	-612.3	-650	0	-3706.4	-711.6	0
RMS	2435.2	570.8	0	4213.5	515.8	0
1/2 P-P	4494	846.8	0	7558.5	783.3	0
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	2696	-622	-287.8	653.7	0	0
2nd	334.5	160.3	58.2	344.9	0	-1801.8
3rd	-251.4	14.1	8.1	2.2	0	67.9
4th	-1358.4	1064.8	-23.8	115.9	0	-34
5th	660.1	-335.8	30.4	36.1	0	-164.6
6th	128.3	-262	27.1	-20.8	0	0
7th	-36.9	-44.5	-16.7	-8	0	3
8th	-7.1	6.8	5	14.3	0	0



Appendix G—Flight Correlation Dynamic Data

The forward flight dynamic structural loads for simulated flight condition trim are presented in the following tables. For each of the measurements, the time-averaged mean, root-mean-square value, the one-half peak-to-peak value (absolute maximum minus the absolute minimum divided by 2), and the first eight harmonics expressed in terms of

Cosine and *Sine* components are presented. Data are organized and presented in the same run and point order as in Appendix D. Measurements with zero values indicate that the instrumentation for that particular channel was not functioning properly during that run, or was considered unreliable for that particular data point. Definition of the measurements in the following tables is presented below.

Measurement Descriptions

Measurement Type	Blade No.	Location, r/R	Units	Positive Sign Convention
Flap Bending	1	0.144	in.-lb	tip up
Flap Bending	1	0.167	in.-lb	tip up
Flap Bending	1	0.215	in.-lb	tip up
Flap Bending	1	0.280	in.-lb	tip up
Flap Bending	1	0.325	in.-lb	tip up
Flap Bending	1	0.570	in.-lb	tip up
Flap Bending	1	0.725	in.-lb	tip up
Flap Bending	1	0.800	in.-lb	tip up
Flap Bending	1	0.900	in.-lb	tip up
Chord Bending	1	0.144	in.-lb	leading edge tension
Chord Bending	1	0.570	in.-lb	leading edge tension
Torsional Moment	1	0.400	in.-lb	pitch up
Flap Bending	2	0.144	in.-lb	tip up
Chord Bending	2	0.144	in.-lb	leading edge tension
Flap Bending	3	0.144	in.-lb	tip up
Chord Bending	3	0.144	in.-lb	leading edge tension
Chord Bending	3	0.174	in.-lb	leading edge tension
Chord Bending	3	0.325	in.-lb	leading edge tension
Chord Bending	3	0.450	in.-lb	leading edge tension
Torsional Moment	3	0.400	in.-lb	pitch up
Flap Bending	4	0.144	in.-lb	tip up
Chord Bending	4	0.144	in.-lb	leading edge tension
Torsional Moment	4	0.400	in.-lb	pitch up
Pitch Link	1	—	lb	tension

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
		Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.215	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570
MEAN	-272.3	169.1		356.6		0		421.4		43.8	
RMS	576.1	339.1		160.2		0		265.3		444.9	
1/2 P-P	1155.1	676.8		387		0		627.7		944.1	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-486.9	421.1	-322	230	-154.1	36.8	0	0	-117	-106	-172.3
2nd	140.5	71.1	76.8	43.3	-4.6	11.3	0	0	-89.5	-3.6	-225.8
3rd	388.3	-187.9	211.5	-96	-3.6	-13.2	0	0	-212.4	91.9	-450.7
4th	149.5	5.4	82.4	1	5.2	-15	0	0	-93.4	-20	-86.8
5th	-80.7	-9.1	-31.9	-3.1	29.2	9.4	0	0	102.8	27.4	2.8
6th	44.9	-25	13.2	-6.2	-31.6	14.2	0	0	-74.4	41.7	-1
7th	36.2	-7.7	7.3	-8.3	-32.7	-14.9	0	0	-69.8	-12.6	-12.6
8th	-24.5	-58.6	-12.9	-2.2	2.6	80.1	0	0	21.8	122.3	69.5
										19.7	27.3
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb
43/ 5	Blade 1, r/R=0.725		Blade 1, r/R=0.800		Blade 1, r/R=0.900		Blade 1, r/R=0.144		Blade 1, r/R=0.570		Blade 1, r/R=0.400
MEAN	-276.8	-524.3		-597.6		-7501.1		-2604.1		-435.6	
RMS	525.7	547.7		478.8		1228.1		1652.6		69.7	
1/2 P-P	1068.8	1227.5		1211.4		2028.2		3140.3		156	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-201.1	-151	-203.4	7.3	-58.2	-1662.7	-82.8	-178.7	134	34.3	-53.2
2nd	-362.5	9.4	-424.2	23.6	-335.1	22.2	47.1	-54.6	279.1	-37.1	-11.2
3rd	-439	224.1	-413.9	232.7	-355.5	179.3	137	59.8	-322.2	-223	-57.2
4th	87.5	21.4	159.9	25.2	135.3	22.6	-181.2	80.3	1960.1	-986.2	-3.3
5th	-136.4	-80.6	-112.1	-105.4	13	-82.4	181.4	25.8	-412	-126.3	-8.6
6th	124.4	-54.4	85.6	-44.7	71.4	-9.4	8.9	15.9	-48.1	-32	2
7th	18.3	-14	-86.1	-8	-171.3	7.6	19.3	9	-18.6	-6.2	-10.2
8th	-16.7	56.6	3.9	204.5	-50.2	215.6	-319.2	-157.3	334.9	138.2	-7.6
										2.8	12.9

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144				Flap Bending, in-lb Blade 3, r/R=0.144				Chord Bending, in-lb Blade 3, r/R=0.174				Chord Bending, in-lb Blade 3, r/R=0.325			
		SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
MEAN	-348.6	-5188.9	-266.9	-5621.7	-2404.8	-747.4											
RMS	479.8	1338.6	493.3	1449.8	1227.1	1200.5											
1/2 P-P	1034.5	2253.1	1041.7	2411.4	2224.8	2429.5											
HARMONIC																	
1st	-368.1	-249.7	236.7	-1801.4	281.2	-388.3	1979.1	220.1	1657.4	189.3	860.4	40.6					
2nd	-115.9	-67.7	-23.6	57.8	109.8	69.3	89.1	-40.9	109.8	-37.2	258.5	-99					
3rd	-225.6	-387.1	42.9	-148.7	-392.1	208.4	-139.8	-41.1	-108.9	-1.1	83.2	155.4					
4th	143.4	-4.9	-279.3	43.3	152.7	-3	25.2	39.6	241.5	-93.2	1191.5	-692.8					
5th	13.1	-93.9	-32.7	179.4	86	-8.8	-182	4	-85.9	3.3	289.1	65					
6th	-54.7	27.7	42.2	8.1	42.4	-24.7	-40.8	-9	-37.3	-9.3	-0.9	-24.9					
7th	0	-35.9	43.2	-32.9	-38.6	3.8	10.4	-63.7	11.9	.52	-12.6	-22.2					
8th	-45.4	-76.6	-324.2	-107.2	-35.8	-71.2	-359.2	-132.6	-306.1	-130.1	-155.2	-66.7					
RUN/POINT																	
43/ 5	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Pitch Link, lb Blade 1
MEAN	-1558	-422.1	0	0	-6960.6	-506.9	-73.9										
RMS	1457.6	72.7	0	0	1366.6	68.8	12.2										
1/2 P-P	2807.6	163.1	0	0	2269.5	155.2	21.5										
HARMONIC																	
1st	462.8	-70.7	-38.7	68.3	0	0	-370.2	1839.9	-52.7	-44.7	-12.4	-11					
2nd	297.1	-134.8	-30.9	-11.1	0	0	-22.9	36.1	34.6	12.8	2.4	-1.2					
3rd	236.8	208.8	51	-3.2	0	0	-70.9	132.7	4.7	-49.7	1.5	0.8					
4th	1554.6	-1068.7	-7.5	-0.4	0	0	-47.2	105.6	-5.4	-8.8	-0.4	-0.2					
5th	467.2	51.5	-0.2	-3.5	0	0	21.5	-181	3.4	0.6	0	-0.1					
6th	27.3	-15.9	3.1	-7.6	0	0	1.3	22.2	-2.1	8	0.1	0					
7th	-7.9	35.1	-2.5	4.4	0	0	-9.5	-16	5	1.5	0.1	0					
8th	150.8	67.5	2	14.5	0	0	-318.5	-150.7	2.6	16.4	-0.2	-0.2					

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
43/ 6	-421.2	-5060.6	-344.1	-5473.6	-2293	-690.9
MEAN	809.2	3082.3	808.9	3271.4	2704.9	1808.9
RMS	1546.1	4762	1551.1	4770.3	3985	3406.2
1/2 P-P						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-81.3	1031.7	271.4	-4313.2	-1026.3	4590.2
2nd	-69.2	-25.3	122.3	-202.1	64.3	-116.4
3rd	-226.3	-382.6	16.6	-179.5	-396.6	194.8
4th	118.5	29.6	-189.2	176.5	133.9	33.9
5th	49.8	-60.7	-37.9	125.2	49.9	37.4
6th	-56.5	16.2	10.5	37.1	63.7	-16.5
7th	10.8	-26	-10.2	-25.1	-25.6	-5.5
8th	-35.4	-85.2	-286.5	-221.3	-9.6	-94.1
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
43/ 6	-1517.7	-422.6	0	-6825.8	-504	-77.5
MEAN	1618.5	73.8	0	3245.5	70.2	11.2
RMS	3364.7	165.9	0	4857.4	152.3	21.1
1/2 P-P						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	1291.4	-87.9	-53.7	61.9	0	-394.6
2nd	185.7	-54.4	-27.8	-5.9	0	165.6
3rd	204.2	236.5	49.9	-7.1	0	-30.2
4th	1476.2	-1008.8	-0.5	5.5	0	-29.4
5th	369.9	196.3	-0.9	-0.4	0	37.4
6th	-3.3	-4.5	6.6	-5.6	0	39.1
7th	6.5	0	-4.2	0.9	0	-22.5
8th	134.7	108.3	-3.8	17.3	0	-266.3

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144	Flap Bending, in-lb Blade 1, r/R=0.167	Flap Bending, in-lb Blade 1, r/R=0.215	Flap Bending, in-lb Blade 1, r/R=0.280	Flap Bending, in-lb Blade 1, r/R=0.325	Flap Bending, in-lb Blade 1, r/R=0.570
MEAN	-296.9	154.4		350.7	0	422.9	45.6
RMS	979.8	601.1		280.3	0	283	462.5
1/2 P-P	1339.5	885.6		556.8	0	683.2	984
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-1272.2	219.8	-797.7	103.2	-354.9	-19.5	0
2nd	156.9	52.7	88.1	32.3	-1	8.4	0
3rd	383.9	-188.4	209.2	-96.2	-3.1	-12.6	0
4th	161.5	-1.1	89.4	-2.2	7.4	-16.1	0
5th	-66.1	1.8	-24.3	1.2	28.9	4.7	0
6th	45.3	-30.7	13.8	-10.3	-31.9	10.8	0
7th	45	-12.5	14	-9.9	-30.6	-14.2	0
8th	-28	-63.6	-11.6	-6.2	7.8	77	0
MEAN	-267	-516.5	-599.7	-599.7	-7524.7	-2627.8	-436.6
RMS	541.4	558.9	499.6	634.6	1714.9	72.4	
1/2 P-P	1112.5	1243.1	1258.1	1391	3240.8	162.2	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-220.3	-155.4	-206.4	23.7	-59.4	-30.5	751.3
2nd	-382.7	22.6	-439.1	35.7	-335.2	27.8	177.7
3rd	-442.6	236	-420.1	250	-357.6	197.6	132.8
4th	85.6	32.7	157.2	40.1	124.5	38.7	-213.6
5th	-115.9	-44.8	-81.3	-64.9	30.7	-58	147.7
6th	126.7	-59.1	94.4	-55.7	89.1	-22.6	4.2
7th	24.1	-20.1	-82.6	-11.3	-165.6	9.1	48.6
8th	-12	51.3	12.5	201.7	45.7	222.1	-262.8
MEAN	-296.9	154.4		350.7	0	422.9	45.6
RMS	979.8	601.1		280.3	0	283	462.5
1/2 P-P	1339.5	885.6		556.8	0	683.2	984
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-1272.2	219.8	-797.7	103.2	-354.9	-19.5	0
2nd	156.9	52.7	88.1	32.3	-1	8.4	0
3rd	383.9	-188.4	209.2	-96.2	-3.1	-12.6	0
4th	161.5	-1.1	89.4	-2.2	7.4	-16.1	0
5th	-66.1	1.8	-24.3	1.2	28.9	4.7	0
6th	45.3	-30.7	13.8	-10.3	-31.9	10.8	0
7th	45	-12.5	14	-9.9	-30.6	-14.2	0
8th	-28	-63.6	-11.6	-6.2	7.8	77	0
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-220.3	-155.4	-206.4	23.7	-59.4	-30.5	751.3
2nd	-382.7	22.6	-439.1	35.7	-335.2	27.8	177.7
3rd	-442.6	236	-420.1	250	-357.6	197.6	132.8
4th	85.6	32.7	157.2	40.1	124.5	38.7	-213.6
5th	-115.9	-44.8	-81.3	-64.9	30.7	-58	147.7
6th	126.7	-59.1	94.4	-55.7	89.1	-22.6	4.2
7th	24.1	-20.1	-82.6	-11.3	-165.6	9.1	48.6
8th	-12	51.3	12.5	201.7	45.7	222.1	-262.8

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
43/ 7						
MEAN	-367.1	-5215.7	-290.8	-5637.7	-2424.5	-794.7
RMS	847.7	548.4	858.2	586.7	547.7	1074.6
1/2 P-P	1200.8	1216.1	1176	1200.8	1275.3	2070.8
HARMONIC	COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE
1st	-191.2	-1061.9 -528.6	-180.4 1084.1	-183.7 320.6	-593.8 327.3	-501.6 41.9
2nd	-128.3	-52.4 -153.2	57 131	65 204.4	211.1 48.6	306.6 306.6
3rd	-227.1	-393.4 42.1	-138.2 -390	209.9 -132.6	-41.6 -98.5	-3.4 100.7
4th	153.5	-3.5 -287.9	99.4 169.6	1.3 37	33.7 246.7	-109.1 1160.3
5th	13.1	-81.3 -35.6	174.2 70.1	-14 -158.1	8.6 -70.8	6.6 265
6th	-55.9	27.1 41.8	-16 47.8	-20.7 -49.1	-13.2 -42.3	-10.9 -10.9
7th	-10.7	-40.9 80.1	-35.6 -46.8	9 11.7	-61.5 9.4	-50.8 -14.3
8th	-40	-88.4 -274.6	-107.4 -15.9	-69.9 -302.1	-146.9 -254.9	-141.9 -126.5
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.400	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
43/ 7						
MEAN	-1597.9	-422.4	0	-7003	-509.1	-73.5
RMS	1426.9	74.4	0	459.5	72	18.7
1/2 P-P	2820.8	163	0	1001	168.9	31.3
HARMONIC	COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE
1st	-62.7	-319.1 -32	74.1 0	0 460.4	161.8 -58.9	-41.7 -8.1
2nd	326.7	-146.1 -33.7	-10.7 0	0 -138.4	59.4 36.8	13.4 3
3rd	254.3	188.3 51.1	-2.9 0	0 -68.7	128.7 7.8	-51.5 1.5
4th	1495.4	-1129.8 -7.6	-2.2 0	0 -51	58.4 -3.6	-10.2 -0.4
5th	424.3	35.7 0.8	-1.5 0	0 23.3	-167.6 4.1	-0.2 0
6th	27.4	-10.3 5.8	-5.8 0	0 1	24.3 -1.5	8.5 -0.1
7th	-0.5	32.3 -1.1	6 0	0 -15.6	5.6 9.4	-0.2 0
8th	126.1	82 0.3	12.6 0	0 0	-251.8 -148.1	2.3 12.3

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		
	Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.167	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.370	Blade 1, r/R=0.570	Blade 1, r/R=0.570	
MEAN	-367.5	104.5	328.3	0	0	0	398.6	-23.5	-23.5	-337.4	
RMS	732.7	431.6	151.5	0	0	0	209.8	374.6	374.6	77.5	
1/2 P-P	1252.2	761.9	306.5	0	0	0	467.4	700.3	700.3	125.9	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-715.1	669.4	-446.9	367.5	-166.2	62.4	0	0	-30.6	-173.1	16.4
2nd	186.8	-75.9	111.3	-40.1	14.8	-2	0	0	-87.3	36.7	-246.6
3rd	214.3	-106	121.1	-57.9	3.1	-12.8	0	0	-125.4	44.9	-259
4th	72.3	5.4	41.5	0.7	6.3	-10.8	0	0	-52.5	-13.9	-42.4
5th	-12.9	-70.8	-3.2	-29.3	1.5	26.2	0	0	10.4	94.8	10.7
6th	28.1	-22.4	11.5	-8.3	-14.8	7.7	0	0	-52	31.1	33.8
7th	3.9	-7.9	4.6	-3	3.8	4.7	0	0	-7.1	7.6	10.7
8th	7.5	-53.5	-4.5	-10.6	-26.8	50.9	0	0	-32.1	95.7	-98.5
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		
43/ 8	Blade 1, r/R=0.725		Blade 1, r/R=0.800		Blade 1, r/R=0.900		Blade 1, r/R=0.144		Blade 1, r/R=0.570		
MEAN	-383.1	-654.7	-652.2	-7828.2	-2592.7	-443.2					
RMS	448.7	462.9	357.7	733.1	887.2	112.8					
1/2 P-P	899.9	963.3	866.2	1438.4	1886.6	203.8					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	18.3	-338.5	58.2	-254.6	18.1	-79	-795	-590.4	-247.9	123.4	79.1
2nd	-334.9	104.1	-363.2	82.7	-199.2	44.2	-10.6	13	233.4	-152.6	-45.9
3rd	-234	213.4	-213.8	241.3	-208.2	183.4	110.2	3.7	-198.7	-95.3	-31
4th	29.8	41.2	78.3	49.8	80.7	66.4	-69.6	35	779.3	-771.5	-2.5
5th	24.5	-194.9	10.8	-245.1	57.7	-184.4	88	95.1	-196	-257	-1.4
6th	65	-59.9	46.4	-53.6	-11.6	-40.1	-5.4	-11.5	-6.3	7.1	-4.4
7th	-9	-8.7	-22.5	-2.9	-45.2	27.3	25.5	6.1	-28.1	-3.6	-3.6
8th	-29	44.3	-84.9	152.9	-66.2	160.7	-120.6	-162.6	135.6	0.7	-2
										-2.2	7.5

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
43/ 8						
MEAN	-445.1	-5458.1	-369.2	-5889.6	-2641.3	-900.6
RMS	557.3	1016.7	575.9	1113.2	946.5	783.5
1/2 P-P	1075.4	1857.7	1096.4	2020.2	1649.4	1677.3
HARMONIC	COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE
1st	-588	-395.3	722.3 -1198	414.7 -616.5	1347.3 747	1157.6 601.9
2nd	-148.6	75.9	22 -40.3	149.8 -72.3	10.8 41.8	35.5 20.3
3rd	-121.6	-234.3	-9.9 -102.8	-236.4 117.2	-103.1 9	-79.1 21.1
4th	70.9	7	-118.8 54.1	73.6 8.2	14.7 -7.9	105.4 -102.5
5th	79.9	-31.4	-104.7 92.2	17.1 55.1	-103.2 -77.5	-47.5 -36.3
6th	-30.2	26.9	8.7 6.5	27.7 -19.6	-17 -8.7	-15.3 -1.9
7th	-9.6	-2.6	27.1 11.7	-7.9 7.8	32 8.2	24 5.6
8th	1.4	-78.3	-142.9 -145.7	7.3 -48.5	-149 -173.7	-118.2 -159
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
43/ 8						
MEAN	-1625.2	-430.9	0	-7275.7	-510.9	-73.6
RMS	857.5	126.5	0	1000.3	118.1	5.5
1/2 P-P	1814.4	222.8	0	1834.9	206.1	12.6
HARMONIC	COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE
1st	480	-10.1	-84.5 147.9	0 0	-858.6 1081.3	-127.2 -92.4
2nd	211.1	-135.4	-39.4 11	0 0	46.7 -18	41.7 -3.6
3rd	158.2	104.2	29.2 -10.8	0 0	-6.5 108.4	-4.3 -30.6
4th	617.5	-783.6	-10.7 -1.7	0 0	-7 34.2	-9.4 -8.9
5th	250.3	235.6	-1.5 0	0 0	99 -100.6	-2.2 0.2
6th	1.9	8.5	0.7 -2.9	0 0	6.1 10.8	-1.4 2
7th	-28.3	-13.4	1.2 1.6	0 0	27.1 5.3	0.1 -1.5
8th	66.8	67.5	-2.4 7	0 0	-118.8 -159.9	-2.7 9.5

		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
RUN/POINT													
MEAN	-349.8	116.1		331.2	0		0		398.9			-30.2	
RMS	788.7	468.2		226.2	0		0		232.4			370.7	
1/2 P-P	1341	788.2		459.2	0		0		512.7			742.2	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	1061.8	165.4	637.3	70.4	292.8	-59.7	0	0	88.1	-197.2	90.3	-344.1	
2nd	91.7	-148.4	54.8	-83.8	-6.2	-19.1	0	0	-86.5	36.2	-224.4	87.8	
3rd	192.3	-78.1	107.8	-42.4	-0.1	-9.7	0	0	-117.9	37.5	-238.3	119.2	
4th	57.6	7.5	31.9	1.3	0.2	-8.7	0	0	-56.5	-9.5	-33.8	3.8	
5th	-22.7	-80.6	-8.9	-31	0.5	36.1	0	0	14.8	116.9	10	0.5	
6th	30.2	-15.2	11	-4.2	-16.8	9.5	0	0	-52.6	29.4	30.7	1.5	
7th	-0.6	-3.5	1.3	-1.2	3.3	4	0	0	-3.1	7.7	7.8	-10.4	
8th	9	-55	-7.3	-7.3	-33.2	61.9	0	0	-41.5	109.1	92.3	-114.2	
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725		Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Chord Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400		
43/9													
MEAN	-399.3	-667.3		-657.8		-7595		-2536.6		-446.9			
RMS	443.1	467.9		354.9		3374.4		1106.8		117.7			
1/2 P-P	949.9	1006.2		874.4		5077.2		2537.5		213.4			
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	49.8	-344.1	55.3	-257.8	-24.2	-74.9	-4728.3	-360.6	-991.9	177.5	100.5	-118.7	
2nd	-307.4	103.8	-340.6	70.8	-196.4	18.7	-106.6	372.1	204.7	-85.4	-45.4	15.5	
3rd	-216.8	208.8	-199	248.9	-193.8	196.6	134.7	-49.7	-167.9	-138.5	-29.4	4.8	
4th	44.1	15.8	94.5	14.2	91	42	-52.3	10.4	788.3	-695.3	0.6	-2.3	
5th	15.8	-231.6	-3.1	-289.6	46	-218	99.5	66.4	-220.6	-266.6	-1.4	-3.4	
6th	67.4	-51.8	42.5	-45.3	-20.9	-39.2	-9.4	-36.5	3.5	29.3	2.3	-2.2	
7th	-18.9	-3.3	-21.6	9.5	-42.8	41.3	12.7	7.2	-14.8	2	-0.6	0.8	
8th	-38.7	51.5	-92.9	176.3	-61.1	183.3	-167.2	-221.9	187.9	214.9	-4	9.5	

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
43/9	-429.8	-5244.4	-351.8	-5676	-2470.6	-826.4
MEAN	1014.8	3516.1	1013.2	3688.4	3051.3	1926.6
RMS	1716.5	5274.5	1704.2	5442.6	4490.7	3397.2
1/2 P-P						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-28.8	1401.1	383	-4924.1	-1395.2	-101.7
2nd	-57.8	125.2	92.9	-415	62.6	-134.9
3rd	-98.6	-212.4	-70.9	-142.6	-222.6	83.2
4th	58	14.8	-58.3	105.5	64.9	17.1
5th	90.2	-33.7	-50.4	87.5	24.8	73.4
6th	-34.9	21.5	3.2	32.2	37.6	-20.7
7th	-7.6	0.3	-22.7	7.2	-2.4	8.3
8th	-2.1	-79.3	-192.7	-199.8	1.3	-62.8
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
43/9	-1575.8	-435.6	0	-7056.3	-512.9	-78.8
MEAN	1427.3	131.1	0	3619.5	121.9	20.1
RMS	2942.9	232	0	5396.8	214.4	32.5
1/2 P-P						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	1667.4	-131.8	-108.7	139.7	0	-531.4
2nd	149	-3.4	-39.7	17.7	0	156.6
3rd	116.1	140.8	28.3	-6	0	51.6
4th	572.5	-841.8	-5.2	2.9	0	3.3
5th	279	259.8	-1.9	-2.7	0	0
6th	9.4	23.8	1.3	-1.4	0	12.4
7th	-10.3	-36	1	-1.4	0	0
8th	88.1	79.7	-3.4	9.9	0	0

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.570	
MEAN	-430	65.8	311.9	0	0	391.8	0	391.8	0	-23.4	
RMS	1112.2	676.1	272.4	0	0	219	0	219	0	376	
1/2 P-P	1544.4	959	484.2	0	0	496.1	0	496.1	0	656.9	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-1505.7	314.1	-925.6	147.9	-368.8	-31.2	0	0	-84.6	-195.5	
2nd	201.7	-74.3	121	-39	16.1	-0.9	0	0	-92.5	39.2	
3rd	194.1	-93.8	109.2	-50.7	2.1	-10.3	0	0	-116.1	44.1	
4th	80.2	3.7	46	0	7.1	-10.8	0	0	-53.6	-13.1	
5th	9.7	-56.5	4.9	-21.1	-6.2	23.3	0	0	-15.7	80.4	
6th	30	-18.2	13.5	-6.5	-11.6	6	0	0	-47.6	24.8	
7th	5.2	-12.7	4.9	-5.8	3	3	0	0	-7.7	8.5	
8th	14.7	-46.7	-2.3	-8.5	-30.5	44.7	0	0	-40.1	85	
RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
43/10	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.400	
MEAN	-375.6	-645.5	-644.2	-794.5	-794.5	-2617.6	-2617.6	-443	-443	-443	
RMS	451	466.2	356.3	706.7	856.8	114.8	856.8	114.8	114.8	114.8	
1/2 P-P	899.3	936.1	829.5	1361.8	1361.8	1742.6	1742.6	205.9	205.9	205.9	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	7.9	-335.6	64.5	-248.3	40	-71.5	794.3	524.7	58.1	319	
2nd	-357.5	109.5	-381.6	88.3	-204	48.8	88.2	-24.3	252.2	-167.6	
3rd	-228.7	220.1	-216	256.1	-213.8	199	110.8	-15.3	-204.1	-77.8	
4th	28.4	37.3	74	49	73.3	70.3	-96.2	9	799.9	-667.7	
5th	69.2	-165.9	65.3	-214.8	92.6	-161.4	44.5	83.1	-107.1	-236.7	
6th	62.2	-54.9	50.2	-53.8	-1.7	-46.9	-7.7	-9.7	-6.1	4	
7th	-9.3	-14.7	-25.8	-12.6	-47.5	17.2	15	22.2	-13.4	-5.9	
8th	-29	39.1	-98.1	134.3	-83.5	143.5	-85.2	-160.3	99.2	3.3	
										-1.1	
										5.5	

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
43/10	-495.3	-5563.1	-421.6	-6002.6	-2739.1	-976
MEAN	909.9	402.3	918.5	377.7	318.7	583.8
RMS	1249.6	920	1265.8	818.6	726.7	1171.5
1/2 P-P						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-266.5	-1213.2	-286	384.3	1228.4	-281.6
2nd	-170.8	79.7	-61.4	-9	175.7	-75.5
3rd	-109.1	-211.1	-21.6	-103.5	-208.6	107.7
4th	79	9.4	-102.8	49.9	85.7	8.6
5th	69.4	-3.1	-102.3	58	-4.2	50.9
6th	-27.1	27	6.7	-1.4	30.3	-18.8
7th	-14.8	-1	22.5	19	-7.7	12.8
8th	6.2	-76	-104	-144	13.9	-48.7
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
43/10	-1667.2	-429.5	0	-7455.2	-510.6	-73.8
MEAN	755.2	128.9	0	631.4	120	13.6
RMS	1495.1	221.2	0	2053.5	214.5	24
1/2 P-P						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-32	-329.4	-79.4	154.9	0	130.8
2nd	246.4	-139.4	-40	11.3	0	-18.8
3rd	167.1	83.7	26.5	-8.1	0	0
4th	506.5	-731.7	-11.1	-5.5	0	0
5th	155.8	251.7	-3.9	2.3	0	0
6th	-8.2	8.3	2.2	-1.7	0	0
7th	-19.2	-25.7	1.7	0	0	0
8th	55.2	66.3	-2.4	7.8	0	0

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
		Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570
MEAN	-322	134.9	339.9	0	0	415.9	-4.4	415.9	-4.4	443.8	443.8
RMS	494.9	270.9	68.5	0	0	232.4	443.8	517	833.2	833.2	833.2
1/2 P-P	881.6	471.3	192.9	0	0	0	0	0	0	0	0
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-313.2	546.9	-191.8	282.7	-20.2	-9.3	0	0	91.1	-263.6	193.8
2nd	64.8	-262.6	48.1	-146.4	9.5	-20.1	0	0	-44.3	89.6	-493.7
3rd	83.2	-47.1	49.9	-28.8	7.4	-17.3	0	0	-41.2	13.5	-192.9
4th	38.8	8.3	25.4	1.7	9.5	-11	0	0	-18.5	-16.8	188
5th	-33.5	-39.7	-8.6	-14.5	18.5	16.5	0	0	-49.2	58.2	109.7
6th	27.5	-13.5	12.8	-3.8	-7.4	5.8	0	0	-31.9	20.1	-119.5
7th	1.3	-5.6	5.2	-3.6	9.6	-0.8	0	0	10.9	5.1	-23.7
8th	-3.3	-47.4	-8.6	-9.7	-18	44.2	0	0	-15.3	84.6	-3.3
RUN/POINT	Flap Bending, in-lb	Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
43/11	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570
MEAN	-434.9	-688.9	-668.8	-6969.9	-2480.4	-464.1	-464.1	-2480.4	-2480.4	172.5	172.5
RMS	513.8	465	297.2	1403.9	871.4	2067.5	2067.5	871.4	871.4	289.8	289.8
1/2 P-P	1013.5	995.4	835.8	2428.4	0	0	0	0	0	0	0
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	219.1	-483.9	161.3	-372.5	-10.6	-123.8	-1903.3	-302.9	-646	321.8	136
2nd	-308.6	157.4	-274	110.4	-135	39	67.2	283.5	193.9	-103.9	-185.5
3rd	-122.4	274.3	-160.2	292.7	-136.3	211.1	95.2	-71.2	-125	-19.4	-60.1
4th	17	26.8	56.5	62.8	19.3	73	-27	42.4	398.5	-739.1	49.6
5th	-69.5	-119.9	-57.1	-162.6	4.3	-99	78.6	82	-197	-245.5	-14.2
6th	60.3	-22.5	21.8	-42.6	6.7	-47	-28.6	2.4	24.2	-10.3	-6.9
7th	12.6	-12.2	11	22.7	-26.8	24.2	4.5	-19.6	-6.8	24.6	-4.8
8th	-29.1	24.5	-30.2	133.8	-27.5	168.7	-242.8	-160.8	249.8	148.6	-0.1

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
43/11	-406.9	-4640.5	-347.1	-5028.6	-1950.8	-627.3
MEAN	355.3	1856.1	380.8	2008.9	1699.1	1215.3
RMS	749.5	3070.6	776.9	3272.8	2728.2	2334
1/2 P-P						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-384.8	121.5	293.2	-2561.4	-118.6	-432.5
2nd	0.3	229.4	-64.9	-323.7	-6.1	-245.2
3rd	-57.9	-131.5	-72.8	-86.5	-111.7	96.9
4th	40.5	16.6	-54.6	47.4	38.2	-79.1
5th	55.9	-37.9	-75.1	84.7	51.8	28.7
6th	-24.1	14.4	22.3	6.4	17.3	-17.7
7th	-2	1.9	18.5	-4.4	0.1	4.3
8th	-18.8	-76.8	-246.1	-127.2	-20.1	-57
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
43/11	-1462.5	-456.5	0	-6427.3	-531.6	-83.1
MEAN	1031.1	193.4	0	1735.7	180.2	11.1
RMS	2202	317.8	0	2810.5	299.8	20.4
1/2 P-P						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	1120.3	-265.8	-147.6	217.6	0	-538.6
2nd	153.4	-29.2	-46.5	53.3	0	-28.6
3rd	114.5	46.9	18.2	5.3	0	74.5
4th	341.7	-689.5	-0.9	9.6	0	14.8
5th	270.6	220.4	0.5	-5.3	0	67.3
6th	7.7	-8.2	1.4	-2.5	0	2.2
7th	-26.9	1.1	-1.1	-0.2	0	18.7
8th	107.3	60.1	0.4	5	0	-238.9

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.570	Blade 1, r/R=0.570	
MEAN	-260	174.6	356	0	0	418.2	-5.1	247.9	447.9	806.2	
RMS	583.8	336.7	173.4	0	0	519.4	238	93.3	-159.5	-500.3	
1/2 P-P	957.8	574.3	316.4	0	0	0	206.3	4.5	-95.3	88.3	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	634.4	418.6	386.2	211	228.2	-40.1	0	0	158	-273.3	
2nd	-44.1	-297.8	-17	-168.2	-12.1	-27.3	0	0	-35.1	93.3	
3rd	65.8	-16.5	39.9	-12.2	8.3	-14	0	0	-30.3	-159.5	
4th	24.5	11.3	16.5	2.7	7.9	-11	0	0	-14.8	-18.7	
5th	-36.2	-21.5	-10	-8.3	20.6	10	0	0	51.7	36.1	
6th	13.3	-12.8	6.5	-2.9	-3.5	8.2	0	0	-18.4	22.9	
7th	-1.4	-4.1	2.4	-3.2	6.3	-1.7	0	0	6.7	3.3	
8th	-11.9	-29.7	-10.6	-1.9	-8.7	38.1	0	0	-1.2	64.2	
RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
43/12	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.400	Blade 1, r/R=0.400	
MEAN	-449.6	-702.4	-679.5	-6820.6	-2445.8	-468.5					
RMS	499.7	437	261.4	2944.8	1023.2	177.9					
1/2 P-P	909.9	907.9	718	4693.7	2393.5	297.4					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	242.6	-490.8	165.3	-375.2	-31.9	-120.1	-4113.4	-209.3	-1072.1	352	
2nd	-274.2	171.3	-251.6	116.3	-138.5	32.8	64.7	485.3	158.7	-79.6	
3rd	-99.7	242.5	-134.4	261.8	-113	191.6	73.4	-97.6	-90.7	-18.1	
4th	13.5	32.2	43	68.5	6.4	78.1	-37.3	28.3	398.2	-639.4	
5th	-78.8	-89.8	-71.3	-132.3	-11.8	-86.6	79.8	29.6	-214.5	-137.9	
6th	44.5	-27.2	16.8	-38.7	9.6	-37.6	-23.9	4.7	20.1	-18	
7th	8.8	-17.4	2	10.9	-29.7	16.6	24	12.7	-24.6	-2.2	
8th	-20.6	21.5	-4	104.1	5.2	133.2	-251.8	-78.4	260.7	64.4	

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
43/12						
MEAN	-351.3	-4488.6	-286.1	-4898	-1840.7	-577.7
RMS	804.6	3357.6	825.9	3461.4	2887.5	1902.5
1/2 P-P	1301.6	5240.6	1331.7	5326.7	4428.8	3348.1
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-237.9	1066.4	228.3	-4698.5	-1071.6	257.2
2nd	105.2	250.9	-85.5	-531.2	-99	4041.8
3rd	-33.7	-113.3	-112.3	-65.6	39.5	245.6
4th	28.5	19	12.5	56	38.7	2609.1
5th	38.7	-41.6	-34.4	66.2	50.7	-130.9
6th	-14.3	12.7	22.6	8.4	13.6	155.3
7th	0.5	3.8	25.1	10.1	2.1	27.5
8th	-24.4	-50.5	-253.1	-48.4	-22.5	27.5
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
43/12						
MEAN	-1430.1	-461.7	0	-6306.6	-536.2	-86.1
RMS	1414.5	199.3	0	3293.7	184.2	22.9
1/2 P-P	2882.5	324.8	0	5131.6	303.5	35.6
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	1784.1	-314.2	-162.6	215.1	0	-399.9
2nd	110.4	35.7	-46.3	62.2	0	11.2
3rd	104.8	17.3	16.7	10.2	0	108.3
4th	205.4	-709.5	5.3	8.5	0	-12.3
5th	234.9	129.1	-0.8	-5.8	0	0
6th	-5.3	-12.5	1.2	-3.2	0	21
7th	-29.7	-9.6	-2.8	0	0	25.8
8th	109.8	24.6	2.7	5.2	0	-251.9

RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.144	Flap Bending, in-lb				Flap Bending, in-lb				Flap Bending, in-lb			
		Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.370	Blade 1, r/R=0.400	Blade 1, r/R=0.400	Blade 1, r/R=0.400	Blade 1, r/R=0.400	Blade 1, r/R=0.400	Blade 1, r/R=0.400	Blade 1, r/R=0.400
MEAN	-361.2	108.6	329	0	405.9	-11.2							
RMS	1331.7	799.6	294.9	0	237.4	451.3							
1/2 P-P	1893.5	1131	490.9	0	524.7	857.4							
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-1800.6	475.8	-1095	231.1	-400.7	-36.3	0	0	0	-277.9	148.9	-500.7	
2nd	89.2	-226.7	62.3	-125.3	11.4	-10.2	0	0	-54.1	92.4	-224.3	186.6	
3rd	80.4	-54.9	48.2	-32.7	6.7	-17	0	0	-43.2	18.8	-115	116.3	
4th	34.3	3.6	21.5	-2.6	6.9	-16	0	0	-19.2	-21.9	-38.8	15.7	
5th	23.4	-31.6	13.2	-11.9	-3	9.6	0	0	-27.3	45.2	0.2	13.1	
6th	18.7	-21.3	11.1	-7.5	0.2	7.1	0	0	-18.5	27.1	16.8	-5.3	
7th	-9.7	-14.7	0.4	-7	11.8	4.5	0	0	20.9	19.7	-11.7	-25.4	
8th	-4.7	-59.8	-9.6	-11.5	-20.5	59.1	0	0	-19.6	113.1	64.6	-132.3	
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb				Chord Bending, in-lb				Torsion, in-lb			
43/13	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.900
MEAN	-442.8	-692.3	-692.3	-669.8	-7465.5	-2548.9	-462.4						
RMS	522.2	489.4	489.4	347.6	1116.4	793.4	172.7						
1/2 P-P	991.8	1101.9	1101.9	968.5	2044	1662.3	287						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	212	-474.7	178.5	-362.4	26.3	-117.3	1401.4	591.5	-24.8	477.5	126.1	-195.2	
2nd	-349.9	173.6	-305.6	137.1	-140.4	65.5	178.6	16.5	234.3	-181.1	-54.2	44.6	
3rd	-108.8	269.4	-148.1	284.1	-130.5	206.4	94.9	-49.1	-133.6	26	-19.7	6.1	
4th	18.4	54	61.4	99.9	21.5	105.9	-66	35.8	431.3	-753.3	-1.9	-1.2	
5th	64.1	-112.6	100.3	-165.1	117.9	-105.7	15.6	62	-37.3	-188.3	5.7	-2.7	
6th	51.9	-34.5	17.1	-61.9	7.8	-67.7	-4	-4.4	-4	-0.6	4.2	-2.9	
7th	10.3	-18	14.6	34.9	-26.8	41.6	30	-7.9	-30.9	22.6	1.2	-0.8	
8th	-32.5	34.8	-28.1	182.4	-20.8	231.2	-213.4	-219.1	227.9	201.4	-1.9	4.9	

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
43/13	-427.3	-5069.9	-360.2	-5498.8	-2333.8	-831
MEAN	1032.8	606.7	1052.2	599	473.1	576.9
RMS	1494.3	1306.5	1510.2	1278.9	1044.2	1150.9
1/2 P-P						
HARMONIC	COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE
1st	-366.9	-1384.4	-367.7	650.7	1407.7	-369.9
2nd	-35.4	204.5	-185.8	-75.6	43.1	-388.2
3rd	-78.7	-120.2	-58.5	-87.2	-97.9	-361.4
4th	42.8	11.9	-18.9	35	47.3	-364.3
5th	57.8	16.9	-78	30.2	6	-57.6
6th	-19.3	24	0.3	6	15.5	-21.7
7th	-13.9	12.6	20.1	3.4	10.2	-22.1
8th	-14.5	-95.2	-235.8	-181.7	-15.2	-57.5
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
43/13	-1578.8	-453.4	0	-6918	-530.6	-80.4
MEAN	705.1	193.9	0	792.3	180.2	12.7
RMS	1474.1	320.8	0	1627.1	298.3	24
1/2 P-P						
HARMONIC	COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE
1st	73.4	-488.6	-134.4	228.4	0	271.9
2nd	226.3	-114.8	-43.8	48.5	0	-113.8
3rd	126.2	-11.5	20.6	-6.9	0	52.9
4th	175.3	-722.2	-2.6	2	0	-9.8
5th	114.9	233.4	-3	1.1	0	65.2
6th	-4.8	-0.1	1.8	-0.9	0	-1.7
7th	-31.6	-19.3	-1	-0.7	0	36.5
8th	99.4	82.5	-0.3	6.3	0	-217.3

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
MEAN	-134.6	256.9		379.6		0		430.9		27.2			
RMS	614.9	336.2		148.8		0		324.2		585.4			
1/2 P-P	1115.8	614.7		319.8		0		564.9		1008.1			
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	325.9	521.3	201.9	257.3	177.2	-57.7	0	0	219.1	-347.2	380.1	-630.6	
2nd	-242.6	-549.8	-128.5	-310.9	-46.9	-47.4	0	0	9.6	173.4	-109.1	308.5	
3rd	-12.6	-73.5	-3.1	-44.6	2.3	-17.2	0	0	25.1	12.5	0.5	172.7	
4th	11.6	-2.5	10.8	-2.5	7.2	-2.6	0	0	-4	-7.9	-31.5	0.1	
5th	4.6	22.4	6.5	8.1	11.3	-10.2	0	0	6.8	-40.7	-32	10.9	
6th	10	-17.2	6.3	-5.1	0.7	9	0	0	-9.6	21.9	-4.5	-5.7	
7th	5.6	0.4	6.8	-0.2	7.7	-1.6	0	0	-2.9	-7.9	-10.3	12.6	
8th	14.2	-27.3	-0.6	-7.1	-23.9	21.5	0	0	-42	41.8	55.6	-29.3	
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725		Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Chord Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400		
MEAN	-426.2		-684.2		-691.8		-5392.3		-2301.2		-503.6		
RMS	590		479.7		275.1		2789.6		1095.6		239.2		
1/2 P-P	1040.5		971.6		697.9		4623.8		2546.4		402.8		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	367.9	-608.8	207.8	-469.9	-64.9	-154.8	-3837.6	98.1	-1195.3	550	197.5	-238.1	
2nd	-189.8	209.9	-181.9	136.5	-134.6	19.9	302.4	760	153.4	-9.7	-79.8	106.1	
3rd	-15.5	294.3	-30.8	307.5	-9.4	213.6	56.4	-124.1	-51.9	82.8	-8.7	-16.3	
4th	-18.8	53.4	-32	80.2	-51.4	82.5	4	54.4	-128.7	-546.2	8.5	22.4	
5th	19.3	52.3	55.9	77.7	51	70.1	34.7	-16.9	-66.8	-1.1	4.5	0.9	
6th	29	-32.8	57	-44.9	70.6	-30.7	-3.1	0.5	-5	-17.9	1.7	-2.2	
7th	16.6	-8	6.3	-21	-3.5	-18.9	-27	-7.5	26.2	10.9	3.7	0.1	
8th	-10.5	5	-58.6	62.4	-80.5	73.3	-119.4	-202.3	129.8	195.5	-0.7	3.2	

RUN/POINT		Flap Bending, in-lb Blade 2, r/R=0.144		Chord Bending, in-lb Blade 2, r/R=0.144		Flap Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.174		Chord Bending, in-lb Blade 3, r/R=0.325	
43/14		-277.1		-3113.7		-197.7		-3514		-648.9		28.8	
MEAN		798.8		3540.8		851.6		3561.2		2982.9		2003.5	
RMS		1353		5589.2		1448.7		5499.3		4578.3		3492.6	
1/2 P-P													
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-279.7	908.9	-157.3	-4900.7	-932.8	-380.8	4937.5	-94.9	4143.6	-60.3	2741.7	-406.6	
2nd	309.5	505.1	-331.3	-864.1	-304.7	-565.5	251.8	866.9	183.9	688.3	137.1	260.8	
3rd	-80	-29.1	-153	-20.6	-10.7	84.2	-31.4	132.5	-9.8	100.2	66.8	-31	
4th	24.8	15	49.7	63.7	16.2	-7.6	32.1	-11.7	1.2	-52.3	-125.4	-279.4	
5th	-18.4	-5.4	26.2	16.3	2.1	-61	-27	82.7	-17	51	48.5	-63	
6th	-14.7	16.6	19.7	-2.2	9.3	-16.3	-20.8	19.3	-19	11.4	-16.4	-30.4	
7th	4.4	-8	-8	0.1	-8.6	-2.9	-17.8	-10.7	-17.2	-13.8	-18.4	-22.7	
8th	7	-40.5	-133.1	-180.4	-4.9	-27.2	-135.9	-194.6	-107.3	-180.4	-55.6	-96.1	
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400		Flap Bending, in-lb Blade 4, r/R=0.144		Chord Bending, in-lb Blade 4, r/R=0.144		Torsion, in-lb Blade 4, r/R=0.400		Pitch Link, lb Blade 1			
43/14													
MEAN	-1158.8		-499.9		0		-4930.6		-576.1		-98.2		
RMS	1500.3		267.4		0		3229.8		244.5		27.4		
1/2 P-P	2819.4		439.6		0		5122.6		407.1		42.7		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	1924.3	-567	-212.1	278.5	0	0	-67	4479	-240.7	-211.7	15.9	33.6	
2nd	104	76.1	-62.5	122.1	0	0	-222.7	-771.4	84.9	-90	6.6	-7.9	
3rd	83.3	-75	14.2	23.5	0	0	137.5	67.2	24.4	-14.8	0.1	0.4	
4th	-222.4	-359.4	8.6	24.1	0	0	-2.4	24.6	5.6	19.5	0.1	-0.1	
5th	65.4	-128.8	-0.3	-2.1	0	0	-41.1	-44.5	0.6	-2.2	-0.1	-0.1	
6th	-8.2	-38.3	2.2	0.2	0	0	13.1	3	-0.6	0.5	0	-0.1	
7th	-7.2	-3.8	-2.6	-0.4	0	0	-26.7	-17.6	-1	2.2	0	-0.3	
8th	53.5	72.7	-0.2	4.3	0	0	-129.2	-191.5	-1.5	5.3	-0.1	-0.1	

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
MEAN	-228	200.3	358.7	0	0	428.6	32.3						
RMS	666.4	371.9	170.8	0	0	317.4	579.7						
1/2 P-P	1169.3	636.4	334.3	0	0	544.4	971.2						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	509.4	569.2	313.2	289	221.5	-40.2	0	0	226.2	-338.3	375.2	-632.2	
2nd	-187.8	-507.4	-96.5	-285.5	-35.7	-41.3	0	0	8.3	163.7	-126	288.3	
3rd	-6.4	-77.9	0.2	-45.4	2.4	-14.3	0	0	21.7	22.1	-17.3	168.9	
4th	12.6	-4	12.6	-3.7	8.5	-2.5	0	0	-2.3	-5.4	-31.1	3.4	
5th	-15.8	18.2	-1.4	7.3	19.7	-4.9	0	0	35	-26.9	-32.5	11.6	
6th	13.9	-8.9	7.6	-1.6	-0.7	6.2	0	0	-14.3	12.9	-2.8	1.3	
7th	5.7	-4.1	7	-1.4	6.4	1.6	0	0	-3.5	1.3	-8.1	5.1	
8th	1.7	-23.4	-3.7	-5.1	-1.3	21.6	0	0	-20.6	39.8	35.1	-35.6	
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800	Flap Bending, in-lb Blade 1, r/R=0.900	Flap Bending, in-lb Blade 1, r/R=0.944	Chord Bending, in-lb Blade 1, r/R=0.570	Chord Bending, in-lb Blade 1, r/R=0.570	Torsion, in-lb Blade 1, r/R=0.400						
MEAN	-405	-660.5	-674.1	-5369.9	-2320.1	-500.6							
RMS	575.2	458.9	257.5	2959.9	1082.8	236.1							
1/2 P-P	962.9	952.5	720.1	4824.3	2245	395.9							
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	353.2	-603.5	197	-466	-67.7	-156.2	-4099.5	-167.3	-1232.5	523	194.8	-236.9	
2nd	-208.6	208.8	-193.3	138	-131.4	25.3	198.7	727	139.3	-17.6	-79.2	100	
3rd	-41.2	262.8	-56.2	276.8	-29.1	197.8	55.6	-121.9	-77.2	69.1	-8.1	-17.8	
4th	-28.9	47	-42.6	75.2	-61.7	79.4	-8.7	53.9	-26.2	-634.8	4.8	23.1	
5th	-37.2	13.6	-17	23.2	-1.4	26.4	53.6	-13.9	-127.3	-26.3	1.4	0.4	
6th	31.9	-26.8	54.8	-39.7	65.3	-24.6	-20.8	-4	22.5	-16.2	3.2	-0.6	
7th	13.5	-13.7	1.5	-25.3	-10.3	-23.3	21.6	1.4	-21.7	0.3	2.9	-1	
8th	-5.9	4.1	-30.9	60.6	-48.6	70	-140.9	-129.7	150.2	115.2	1.3	2.6	

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144		Flap Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.174		Chord Bending, in-lb Blade 3, r/R=0.325	
		SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
MEAN	-364.8	-3118.2	-283.3	-3522.4	-655.8	17					
RMS	892.9	3714.6	936.1	3711	3099.7	2050					
1/2 P-P	1403.3	5728.8	1465.4	5832.2	4863	3343					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-321.4	1092.4	89.7	-5167.6	-1105.4	-438.1	5164	191.4	4318.4	178.6	2838.3
2nd	250.6	466.3	-226.2	-842.6	-233.9	-515.9	139.6	835.8	97.5	662.2	96.4
3rd	-90.4	-40.2	-140	-29.3	-11.1	94.8	-39.4	130.2	-11.8	100.1	75.7
4th	23	6.7	50.2	66.9	26.2	-8.4	25.9	0.3	9.1	-56.6	-58.5
5th	-7.3	-21.6	6.3	34	22	-36.9	-51.5	62.6	-28.5	43.8	85.9
6th	-13.7	10.4	14.1	-1.6	8.4	-12.4	-21.4	16	-18.9	8.5	-8.4
7th	-0.5	-3.4	28.9	1.8	-4.5	7.6	27.5	-7	20.1	-8.3	-11.5
8th	2.3	-42.8	-151.4	-109.8	-1	-31.4	-145.9	-129.8	-120.7	-121.2	-63.6
											-65.9
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400		Flap Bending, in-lb Blade 4, r/R=0.144		Chord Bending, in-lb Blade 4, r/R=0.144		Torsion, in-lb Blade 4, r/R=0.400		Pitch Link, lb Blade 1	
43/15											
MEAN	-1168.5	-497.5	0	0	-4909.8	-571.4	-92.9				
RMS	1501.7	264.2	0	0	3393	241.2	29.1				
1/2 P-P	2656.5	4326	0	0	5322.3	406.9	43.9				
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	1981.9	-493.1	-208.6	278	0	0	-327	4714.8	-239.9	-207.8	15.2
2nd	84.8	73.6	-63.8	114.2	0	0	-120	-741.6	84.6	-83.8	6.5
3rd	99.6	-54.6	12.7	23.1	0	0	128.8	71	24.6	-13.5	0.2
4th	-135.7	-465.4	5.4	26.8	0	0	-7.8	38.3	2.5	20.2	0.1
5th	137.5	-63.8	0.8	-1.5	0	0	-25.2	-63.5	0.9	-1	-0.3
6th	-7.7	-33.1	2.4	-1.8	0	0	11	-9.3	-2.8	1.1	0.2
7th	-25.8	-9.4	-2.3	-0.2	0	0	18	0.5	-1	0.9	0.1
8th	55.7	46.6	0.8	4.2	0	0	-135.3	-131.7	-0.7	6	0.1

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		
	Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	
MEAN	-334.2	128.8	318.6	0	0	401.6	2.6		
RMS	1255.4	737.3	248.1	0	293.1	561			
1/2 P-P	1985.7	1160.4	460.9	0	553.3	993.9			
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-1622.1	551.5	-976	262.9	-333.3	-52	0	82.1	
2nd	-186.3	-415.4	-95.5	-231.4	-36.2	-7.9	0	0.9	
3rd	-32	-40	-15.4	-26.1	2.4	-8.8	0	25.7	
4th	-22.5	-15.1	-7.9	-9.8	11.7	-2.2	0	11	
5th	-35.9	-2.9	-7.7	-1	33.1	-1.3	0	0	
6th	14.4	-12	7.2	-4.5	-4	-4.8	0	65.8	
7th	8.9	-2.6	7.9	-2.3	-1.5	-7	0	0.9	
8th	-0.2	-40.7	-4.7	-10.6	-21.9	33.6	0	-19	
RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
4/3/16	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.400	
MEAN	-427.9	-675.4	-668.4	-6050.7	-2381.9	-497.1			
RMS	590.9	484.4	275.2	977.7	678.4	230.5			
1/2 P-P	998.1	922.4	727.6	1809.4	1635.5	380.2			
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	351.6	-605.4	222.1	-467.2	-14.9	-152.1	1119.4	545.1	
2nd	-257.8	229.9	-230	176.9	-147.4	71.9	465.4	159	
3rd	-17.1	255.9	-43.8	273.9	-30.4	197.9	68.3	-117.7	
4th	-59	43	-84.2	70	-95.7	73.7	14.1	42.7	
5th	-87.4	-22.6	-74.9	-4.3	-39.2	19.3	69.1	-76.8	
6th	26.3	-26.3	38.4	-39.3	42.1	-20.5	-5.1	16.1	
7th	17.3	-10.3	3	-17.1	-12.7	-14.6	21.1	4.6	
8th	-7.6	9.8	-33.6	96.4	-52	111.1	-163.7	-187.5	

RUN/POINT		Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
43/16		-437.5	-3727.5	-362.6	-4125.3	-1155.4	-189.4
MEAN		862.5	570.9	880.5	563.6	496.2	604.3
RMS		1520.5	1262.1	1514.6	1251.7	1128.8	1552.1
1/2 P-P							
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-373.4	-1060.3	-463.3	-62.6	1046.3	-440.5	139.6
2nd	235	394.2	-478.6	-285.5	-225.6	-443.7	496.1
3rd	-48.6	-17.1	-130.8	-47.8	19.9	60.7	-53
4th	-5.4	10.9	47.9	46.3	-13.2	-9.9	39.8
5th	7.7	-55.3	-14.5	75	55.7	-24.8	-80.8
6th	-19.6	6.6	9.2	-1.9	12.3	-7	-7
7th	-1.1	-11.4	22.9	-13.3	-12.7	4	25.4
8th	-3	-62.3	-183.9	-159.7	-3.3	-52	-191.3
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1	
43/16							
MEAN	-1272.8	-493.8	0	-5555	-568	-87.3	
RMS	679.5	260.2	0	591.9	238.2	14.7	
1/2 P-P	1514.8	420.8	0	1299.7	388.2	25.8	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	430	-605.5	-185.1	294.7	0	206.4	-585
2nd	252.1	-88.3	-47.5	103.7	0	-385.6	-207.1
3rd	83.3	-50.2	10.2	21.6	0	135	82.4
4th	-165.7	-399.2	5.4	22.4	0	19.9	11.7
5th	241	-8.7	3.1	-4	0	5.1	-82.5
6th	8	-21.5	-1	-0.9	0	-2.6	2.5
7th	-18.1	12.8	-0.4	2	0	11.5	-20.6
8th	72	77.6	1.5	5.2	0	0	-156.6

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.370	Blade 1, r/R=0.400	Blade 1, r/R=0.570	Blade 1, r/R=0.400	Blade 1, r/R=0.570
MEAN	0.2	353.9	414.9	0	0	473.8	116.8	-343	564.8	-686.3
RMS	1379.1	799	320	0	0	388.1	712.1	45.3	247.3	-11.1
1/2 P-P	2340.2	1321.6	534.5	0	0	689.6	1173.1	30.5	22.7	75
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	1147.9	1197.4	700.3	668	412.6	91.1	0	0	325.9	-343
2nd	-562.8	-841.2	-317.4	-479.6	-118.5	-77.7	0	0	45.3	247.3
3rd	-12.5	-116.3	-0.3	-69.6	3	-18.3	0	0	30.5	22.7
4th	-24.9	-6.4	-5.6	-0.5	14.8	13.9	0	0	28.8	15.2
5th	-36	-2.9	-7.8	-0.6	26.2	5.4	0	0	57.1	13
6th	-0.5	-13.6	1.8	-0.9	4.1	17.3	0	0	3.2	28.1
7th	8.7	-9.7	4.9	-2.4	-3.5	9.8	0	0	-16.1	17.5
8th	12.4	3.2	3.5	-0.7	-9.2	-5.9	0	0	-25.4	-7.6
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
43/17	Blade 1, r/R=0.725		Blade 1, r/R=0.800		Blade 1, r/R=0.900		Blade 1, r/R=0.144		Blade 1, r/R=0.570	
MEAN	-302.4	-597.9	-662.8	-2284.5	-1911.8	-553				
RMS	671.3	532.5	312.3	4813.5	1541.8	315.7				
1/2 P-P	1168.3	1171.9	788.4	7613.7	3429.5	532.2				
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	420.4	-715.3	205.8	-578.1	-130.9	-233.2	-6503.5	-1222.5	-1812.2	439.1
2nd	-83.9	286.2	-115.3	152.1	-147	-14.9	400.3	1468.7	16.3	255.2
3rd	112	274.2	132.7	272.5	129.1	167	-10.8	-273.9	17.6	144.2
4th	-89.1	24	-116.4	46	-90.8	63.6	73	25.7	-978.9	-144.1
5th	-112.2	-37.7	-137.4	-43.1	-106.3	-18	48.5	10.9	-144.8	7.5
6th	12.6	-14.8	26.6	-12.8	25.7	-8.2	-5.1	14.8	-58.8	-4.7
7th	9.1	1.1	6.3	7.2	9.3	6.9	36	35	-26.4	5.5
8th	-1.1	-2	-33.6	-14.3	-40.9	-13.7	-7	-37.8	5.4	1.1
						-11.9	-34.4	14.1	30	-0.1
										2.1

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144		Flap Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.174		Chord Bending, in-lb Blade 3, r/R=0.325	
		43/17	449	9127	2639.9	9035.9	7553.7	5129.9	1033.1	3078	5129.9
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-869.2	1820.7	866	-7977.9	-1902.1	-1085.9	7963.2	1044.7	6624.7	904.1	4233.3
2nd	588.8	792.4	-416.2	-1599	-608.9	-883.6	431	1680.2	281.2	1357.5	122.5
3rd	-138.5	-13.9	-243.8	24.8	7	96.1	41.5	322.8	27.6	261	6.1
4th	-20.2	-5.1	155.1	34.6	-31.3	-31.4	37.4	13.9	-99.6	-8.6	-691.2
5th	-5.8	-55.3	0.7	49.9	26.4	-21.6	-59.6	9.7	-29.9	3.6	101.9
6th	6.1	13.2	2.8	1.2	-6.9	-13.8	3.6	-4.1	5.9	-4.7	17.4
7th	-3.7	-9	24.6	-28.2	-5.6	9.9	6	-7.5	4.4	-4.3	2.2
8th	10.1	-8.8	-8.1	-28.4	8.4	-0.2	-21	-26.6	-15	-23.4	-14.3
RUN/POINT											
43/17	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	2933.2	-321.4	-269.8	347.8	0	0	-1254	7386.3	-303.5	-264.7	12.4
2nd	21.9	320.1	-71.6	204.9	0	0	-306.5	-1517.5	103.3	-158.4	12
3rd	-23.8	9.7	26	41.1	0	0	274.7	16.5	40.8	-27.7	0.6
4th	-987.1	-66.2	18.7	43.1	0	0	22.9	25.7	7	30.1	0.4
5th	169.6	-11.4	-0.7	5.5	0	0	3.6	-49.1	-4.8	3.9	0.3
6th	7.3	-30.1	6.7	1.2	0	0	-3.3	0.3	-4.3	-0.8	0.1
7th	3.1	7.3	-0.8	-2.6	0	0	14.7	-5.5	-2.5	-0.2	0
8th	8.8	13.8	0.7	1.4	0	0	-7.7	-28.2	-1.2	2.8	-0.1

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570								
MEAN	-375.4	100	206.2	138	339.5	402.4	403	273.2	636.5	926.3	RMS	368.7	752.2	400.2	335.1	600.5	242.9	458.1		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE						
1st	27.4	-143.9	.9	-109.8	-25.1	-103.2	-76.6	-126.3	-94.9	-137.2	-168.5	-246.8								
2nd	107.2	15.2	57.5	11.7	-10.4	3.3	-64.6	3.8	-80	5	-221.5	-9.1								
3rd	400.8	-201.2	220	-102.6	-1.9	-13.6	-166	57	-218.6	93.7	-463.6	166.6								
4th	144.4	18.6	78	8.4	4.1	-15.1	-67.4	-27.4	-97.2	-26.1	-92.6	-14.1								
5th	-85.2	-5.4	-35.2	-0.2	25	12.1	81.2	22.8	100.5	28.8	1.1	-2.1								
6th	46	-23.2	12.1	-6.3	-36	10.4	-77.9	25	-82.5	33.7	59.1	-6.5								
7th	31.6	-0.2	4.5	-3.3	-34.3	-11.5	-66.8	-17.8	-66.8	-13.6	70.3	28.3								
8th	-2.1	-67.4	-7.8	-2.6	-21.4	89.1	-27.8	150.9	-15.8	140.8	75.2	-155.5								
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Chord Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400										
MEAN	-265	-518.5	-576	-7695.2	-2819.2															
RMS	543.1	581.2	512.8	2208.4	1781.8															
1/2 P-P	1113.4	1314.2	1264.2	3509.2	3385.9															
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE						
1st	-208.1	-166.7	-213.3	-1.8	-50.6	-2960.9	881.3	-402.7	342.1	36.9	-44.4									
2nd	-369.8	25.3	-440.8	33.3	-362.3	16.3	17.5	140.1	280.1	-116.5	-34.6	-6.8								
3rd	-456.8	235.8	-446	244	-381.9	186.8	150.6	49.8	-332.6	-247.4	-58	-10.5								
4th	107.4	41.8	196.6	54.2	162.1	42.9	-174.4	88.1	2103.5	-1048.8	9.7	-8.1								
5th	-129.1	-74.8	-97.2	-95.7	39.5	-66.4	163.3	22.8	-379.4	-128.6	-7.1	4.2								
6th	125.4	-43.1	78.1	-29.6	65.6	1	-17	-18.2	-12	16.6	6.1	-10.1								
7th	15.6	-8.9	-90.4	-4.7	-189	3.1	-6.4	24.3	5.5	-25.6	5.5	-3								
8th	-23.9	62.9	-54.7	223.7	-119.1	232.2	-201.6	-201.4	225.4	186.6	1.9	12.4								

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RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
46/25						
MEAN	-429.1	-5362.5	-293.8	-5587.7	-2478.1	-1160.6
RMS	431.8	2175.1	417.8	2392.7	2000.2	1543.4
1/2 P-P	959.1	3346.1	891.5	3759.5	3255.9	3206.5
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	210.4	249	-742.7	-2944.1	-231.6	-763.6
2nd	-89.8	-21.7	15.4	-164.6	85	29.8
3rd	-236.4	-394.5	23.8	-164.4	-405.9	213.6
4th	146.6	14.5	-226.9	130.5	159.7	14.6
5th	9.9	-102.8	-46.7	161.7	91.8	-10.9
6th	-57.4	28.9	42.9	16.7	56.5	-24.7
7th	1.4	-35.9	14.7	-7.6	-36	-0.1
8th	-18.7	-84.8	-208.3	-166.3	-19.4	-75.2
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
46/25						
MEAN	-1914.1	-425.3	-195.1	-7234.2	-506.9	-64.2
RMS	1636.3	70.5	400.1	2295.3	66.3	3.7
1/2 P-P	3414.1	157.2	842.7	3580	148	9.9
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	843.3	-390.4	-42.5	61.2	-136	-166.8
2nd	242.2	-65.8	-27.9	5.8	-119.3	-18.1
3rd	242.7	234.1	54.3	3.2	231.3	398.3
4th	1650	-1163.2	0.9	3.7	158.1	15.1
5th	442.6	64.5	3.4	-3.5	15.9	84.8
6th	17.8	-37.6	4.9	9.9	-52.2	19.4
7th	7.9	25.2	-3.1	0.9	2.9	40
8th	103	84.7	-2	13.8	-29.1	-85.8

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
MEAN	-407.8	80.3	333.6	402.7	403.6	25.5							
RMS	1109.3	677.8	312.8	287.6	302.6	488.8							
1/2 P-P	1583.3	983.9	635.1	779.3	747.9	1005.3							
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-1409.4	425.9	-882.9	228.2	-397.7	37.2	-217.6	-76.8	-193.4	-104.3	-236.1	-224.6	
2nd	150.9	70.5	83.7	44.5	-1.7	14.7	-66.4	-0.8	-85.3	-1	-240	-27.3	
3rd	420.8	-205.8	230.9	-104	-0.3	-11.9	-170.4	62.7	-226.9	98.6	-485.1	174.6	
4th	165.5	1.5	92.3	-1.2	10	-18.8	-68.7	-26.3	-101	-21.9	-103.8	-7	
5th	-65.3	0.2	-22.7	0.7	29.8	6.1	81.2	9.1	97.4	12.8	-4.7	0	
6th	55.4	-25.5	17.3	-8.4	-37.2	7.7	-84.3	24.3	-89.5	33.5	63.4	-3.2	
7th	47.4	-8.8	12.7	-8.1	-36.9	-15	-79.3	-19.5	-83.6	-11.9	87.8	34.3	
8th	-12.4	-77.8	-8.9	-8.3	-11.9	89.9	-8	158.7	3.2	149.1	59.8	-170	
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Chord Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400			
MEAN	-254.7	-508.8	-575.5	-7794.1	-2785.3								
RMS	560.3	591.3	539.6	531.6	1813.1								
1/2 P-P	1159.7	1347.4	1329.7	1203.5	4033.9								
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-245.9	-180	-190.5	25.3	-44.9	465.7	309	386.4	275.1	16.6	-49.9		
2nd	-379.6	14.5	-441.8	33.1	-348.7	34.3	196.1	-112.7	411.9	-27.1	-42.2	-12	
3rd	-478.6	237	-465.4	241.3	-389.7	183.1	139.8	77.5	-340	-63.7	-65.7	-10.9	
4th	101.7	38.3	188.1	44	145	29.8	-232	60.9	2173.1	-777.7	7.6	-4.4	
5th	-116.4	-46.7	-73.5	-62.3	55.1	-48.2	140.3	24	-467.7	-18.6	-6.6	4.2	
6th	134.5	-47.9	92.5	-37.8	83.9	-4.5	14	-1.1	-200.9	47.3	6.2	-13.8	
7th	22.4	-17.8	-106.3	-13.7	-204.5	3.1	22.9	66.6	-183.9	-82.8	6.3	-7.5	
8th	-18.7	58.1	-42	238	-110.7	254.8	-178.2	-203.1	84	100.4	1.8	12.9	

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
MEAN	-457.1	-5445.5	-325.5	-5695.7	-2564.3	-1224.4
RMS	975.1	437.1	994.3	370.8	367.6	1100.8
1/2 P-P	1482.8	1154.9	1498	863.1	872.2	2021.2
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-396.9	-1196.6	-87	293.7	1227.1	-403.9
2nd	-130.3	-67.1	-170.2	111.7	122.4	74.4
3rd	-245	-418.8	54.1	-146.3	-422.1	235.4
4th	158.4	-2.7	-290.7	92.4	174.8	1.3
5th	11	-91.2	-44.9	170.2	83.4	-2.7
6th	-67.4	28	33.9	-20.3	66.9	-17.7
7th	-9.4	-44.1	61.1	4	-48.8	5.8
8th	-11.7	-108.5	-196.8	-183.1	4	-83
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
MEAN	-1956.8	-424.6	-228.9	-7350.2	-507.8	-69.2
RMS	1483.6	73.2	1056.1	387.6	70.7	22
1/2 P-P	2822.7	162	1597.1	949.2	166.5	37.1
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-229.5	-161.4	-19.7	65.7	509.1	1284
2nd	333.1	-149.6	-35.4	-10.7	-170.9	-63.2
3rd	263.5	197.9	62.2	2.6	243.4	418.5
4th	1607.1	-1113.3	-6	2.4	182.9	6
5th	455.5	86.3	4.9	-3.5	24.1	71.2
6th	25.1	-30.9	6.8	-7.5	-58	22.8
7th	4.1	9	-3.1	5.6	10.5	52.4
8th	91.7	106.5	-2.1	12.9	-22.7	-77.2

RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.144	Flap Bending, in-lb Blade 1, r/R=0.167	Flap Bending, in-lb Blade 1, r/R=0.215	Flap Bending, in-lb Blade 1, r/R=0.280	Flap Bending, in-lb Blade 1, r/R=0.325	Flap Bending, in-lb Blade 1, r/R=0.570
MEAN	-441.1	58.8	322.5	394.2	395.2	21.6
RMS	480.9	276.1	152.2	254.1	282.7	465
1/2 P-P	999.8	586.5	376.3	666.1	671	959.8
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-312.1	299.8	-217.1	157.7	-115.2	-104.
2nd	142.5	44.5	78	28.9	-3	8.5
3rd	408.1	-202.3	224	-102.8	-0.8	-13.1
4th	156.4	12.3	86.1	5.7	7.2	-14.8
5th	-96	-4.5	-38	-0.4	32.1	11
6th	50.5	-25.7	15.2	-6.8	-35.2	12.1
7th	38.7	-7.2	8.2	-8.2	-34.6	-15.2
8th	-4.2	-76.7	-6.5	-4.8	-16.5	95.8
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800	Flap Bending, in-lb Blade 1, r/R=0.900	Chord Bending, in-lb Blade 1, r/R=0.144	Chord Bending, in-lb Blade 1, r/R=0.570	Torsion, in-lb Blade 1, r/R=0.400
MEAN	-260.6	-510.9	-567	-775.6	-2831.1	-439.7
RMS	549.1	587.5	525	1402.6	1753.9	66.8
1/2 P-P	1142.9	1308.9	1287.3	2299.8	3361.4	149.6
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-216.7	-240.9	-170	-192.3	5.5	-45.9
2nd	-378.4	15.4	-444.7	27.9	-355.7	24.2
3rd	-459.6	230	-449	234.1	-385.3	178.1
4th	100.7	33.3	188.2	41.3	148.4	26.6
5th	-168.4	-70.3	-139.3	-88.3	10.8	-65.9
6th	128.1	-49	83.1	-29.3	74.5	8.4
7th	21.4	-14.4	-92	-9.8	-187.9	7.9
8th	-18.5	66.9	-46.4	245.1	-116.4	256.1

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
46/27	-491.6	-5413.5	-352.9	-5649.6	-2526.4	-1192.6
MEAN	418.5	1456	430.8	1630.5	1371.3	1308.2
RMS	876.6	2439.9	901.8	2505.5	2305.8	2560.3
1/2 P-P						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-239.2	-85.7	106	-195	116.4	-275.8
2nd	-125.7	-44.8	15.9	-10.5	117.1	44.7
3rd	-238.1	-399.3	43.2	-153.7	-409.8	219.8
4th	153.6	0.4	-275.2	66.9	160.9	1.6
5th	5	-114.5	-34.9	192.1	105.3	-12.7
6th	-59	29.6	37.5	12.1	51.1	-22.8
7th	-1.9	-40.2	34.4	-32	-41.7	4.2
8th	-18.1	-88	-223.5	-181.2	-19.2	-76.8
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
46/27	-1923	-423.2	-266.9	-7288.3	-505.5	-64.2
MEAN	1586.9	70	469	1531.3	65	9.5
RMS	3030.3	162.2	986.6	2391	145.8	17.6
1/2 P-P						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	535.5	-94.3	-32.2	59.6	328.5	168.3
2nd	268.7	-115.6	-32.4	-9.1	-155.6	-40
3rd	245.8	232.6	58.2	3.6	239.7	405.8
4th	1736.1	-1107.1	-0.8	5.1	167.2	11.3
5th	511.3	68.4	2.1	-5	26.8	102.9
6th	15.6	-30.2	3.8	-9.8	-51.5	22.5
7th	0	36.7	-3.9	2.3	4.7	42.7
8th	101.5	90.8	-0.6	14.2	-38.5	-91.3

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
MEAN	-344.7	115.3	347.2	402.2	393.4	-37.7	393.4	202.8	228.8	402.6	-37.7	402.6	764.8
RMS	267.4	157.7	125.2	476.1	481.4	764.8	764.8	370.1	481.4	764.8	764.8	764.8	764.8
1/2 P-P	667.5	370.1	323.7										
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	44.6	-73.8	16.1	-77.4	27.4	-121.6	18.3	-188	14.5	-211.7	32.6	-356.5	
2nd	149.8	-133.9	89.1	-74.1	6.1	-14.7	-61.7	20.7	-85.6	32.7	-238.4	88.3	
3rd	254.7	-127.1	143.9	-68.3	6.1	-14.7	-101.9	29.7	-139.6	53	-301.4	145.4	
4th	73.4	14.2	41.3	5	5	-11.6	-33.6	-24.8	-52.2	-23.3	-44.9	7.1	
5th	-2.1	-49.9	-2.4	-18.7	-9.7	21.6	-19.3	59.2	-17.1	72.2	15.9	5.2	
6th	29.5	-21.1	12.2	-6.1	-12.2	10.9	-41.2	23.3	-50.5	29.9	37.4	-0.5	
7th	0	-9.4	0.6	-1.8	-0.6	10.7	-2.1	16.9	-2.4	14.5	12.6	-17.7	
8th	24.3	-49.4	-2.8	-5.8	-46.3	53.3	-76.6	95.5	-64.3	95	105.9	-87.7	
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725		Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Chord Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400		
MEAN	-380.8	-671.3	-60.9	-8014	-2804.9	-453.2							
RMS	468.5	483.9	384	2127.9	1211.3	110.9							
1/2 P-P	957.2	1031.2	975.9	3372.8	2614.2	204.7							
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	0.2	-352.7	35.3	-265.4	0.5	-73.9	-2867.3	792.8	-605.1	412.1	90.4	-112.6	
2nd	-326.8	116.9	-365.1	90.2	-214.4	32.7	-3.3	292.2	238.2	-101.7	-44.9	12.9	
3rd	-283	239.2	-252.5	274.8	-233.7	213.4	125.2	-8.7	-219.5	-151.5	-32.4	7.5	
4th	41.2	59.5	92	67.6	102	86.4	-89.5	56.7	974.2	-1065.2	-5	-12.7	
5th	69	-155.3	66.6	-200.9	96.1	-162.3	70.2	102.9	-151.2	-271.2	1.8	-1.8	
6th	68.6	-58.7	54.7	-53.2	-6.1	-41.9	-25.3	0.9	-1.3	-14.7	3.9	-5.4	
7th	-10.2	-7.4	-27.4	4.9	-50.2	37.2	-14.6	-18.4	12.3	24.6	-0.7	-2.9	
8th	-40.7	43.2	-125.7	153.6	-108.4	160.3	-96.1	-201.4	117.3	194.4	-3.1	7.2	

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
46/22	-403	-5611.3	-278.1	-5852.9	-2703.2	-1269.9
MEAN	386.4	2256.4	373.4	2472	2075.9	1432.5
RMS	857.5	3495.5	789.2	3844	3263.1	2679
1/2 P-P						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	174.2	366.3	-624.9	-3092.6	-358.5	133.4
2nd	-107.2	122.1	14.7	-318.6	108	-123.7
3rd	-136.8	-267	-25.8	-119	-276.6	125.1
4th	70.3	20.1	-118	118.2	75	18.6
5th	61.9	-3.4	-96.4	55.2	-11.6	45
6th	-29.1	17.8	4	20.2	24.9	-14.7
7th	-7.8	-0.4	-16.8	-15.8	-5.7	10.3
8th	11.9	-75.1	-108.7	-182.6	7.5	-48.4
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
46/22	-1957.8	-438.3	-167.8	-7520.5	-513.7	-64.8
MEAN	1249.3	125.8	320.8	2299.4	115.7	8.7
RMS	2640.1	225.5	726.1	3540.7	201.6	16.6
1/2 P-P						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	1090.2	-466.1	-97.1	137.9	-87.3	-238.8
2nd	200.9	-53.1	-39.6	16.6	-147.7	120.2
3rd	176.8	156.6	31.3	-6.3	148.5	254.9
4th	668.3	-1019.8	-7.5	-4.3	82.9	17
5th	153.7	263.2	-3.6	0.3	-46	30.5
6th	-8.3	37.2	1.4	-0.9	-28.1	21.5
7th	-3.7	-2.3	1.9	2	8.6	3.7
8th	59.8	82.9	-4.9	6.6	5.5	-69.5

RUN/POINT			Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	46/23	Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.370	Blade 1, r/R=0.400	Blade 1, r/R=0.430	Blade 1, r/R=0.460	Blade 1, r/R=0.490	
MEAN	-367.7	98.1	334.9	386.4	376.5	-35.4						
RMS	1150.9	700.1	288.8	205.1	217.4	376.7						
1/2 P-P	1580.9	999.5	498.3	485.9	506.5	700.1						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	
1st	-1545.5	410.3	-952.8	206.6	-388.2	-3.2	-143.6	-144.1	-100.3	-181.7	-36.2	
2nd	141.2	-30.9	82.8	-14.2	2.1	6.7	-62.7	22.9	-85	31	-233.1	
3rd	224.8	-79	125.8	-41.2	1.6	-8.7	-96.2	21.1	-130.2	38.3	-279	
4th	82.1	13.4	46.2	5.7	5.9	-9.8	-32.4	-23.6	-50.2	-25.1	-54.1	
5th	-18.2	-45.3	-5	-17.1	5.9	20.4	15.1	53.7	21.9	64.4	10.9	
6th	32.4	-10.9	13.5	-1.7	-11.8	5.8	-41.2	8.7	-52.5	14.9	41.1	
7th	7.5	-4.6	4.4	-2.5	-1.4	-0.9	-4.6	-2.8	-6.6	-3.8	8.9	
8th	13.6	-48.5	-3.6	-7.7	-33.2	47.1	-53.1	89.3	-40.5	90.7	71.6	
RUN/POINT	Flap Bending, in-lb	Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		
	46/23	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.970	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.400	Blade 1, r/R=0.400	Blade 1, r/R=0.400	
MEAN	-383.1	-668.3	-654.9	-829.5	-2824.8	-450.7						
RMS	441.6	453.5	363.9	669.9	964.4	104						
1/2 P-P	948.8	937.2	943.6	1366.6	1929.4	196.9						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	
1st	-21.2	-342.1	47.2	-254.8	44.1	-72.5	815.9	315.7	84.1	281.4	67	
2nd	-332.7	90.3	-375.2	75	-219.7	46.5	164.6	-61.6	261.1	-166.4	-38.4	
3rd	-264.3	192.6	-241.4	220.7	-234	170.2	115.1	1.7	-202.4	-117.5	-29.8	
4th	32	45.6	80.2	58.3	83.7	70.2	-114.3	4.4	1040.3	-606.1	-0.7	
5th	-3.4	-147	-16.5	-183.9	34.9	-136.4	88.6	70.2	-220.7	-226.7	-0.8	
6th	63.7	-44.1	47.3	-45.5	-7.5	-34	-9.7	-7.2	-12.8	0.8	2.6	
7th	-4.4	-4.2	-26.8	-12.6	-49.9	5.6	17.8	9.8	-18.8	1.1	-0.1	
8th	-29.8	35.8	-87.2	141.6	-75.7	142.4	-95	-179.8	116.3	171	-4.3	

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
46/23	-418.6 935.1 1302.9	-5877.3 395.3 921.5	-287.8 957 1317	-6139.1 351.3 822.8	-2932.4 297 737.6	-1369.1 616.3 1307.9
MEAN						
RMS						
1/2 P-P						
HARMONIC	COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE
1st	-353.8	-1233.3 -75.8	428.1 1265.9	-362.6 -298.9	-127 -166.1	-106.6 -133.3
2nd	-116.9	35.3 -131	31.2 117.9	-30.6 186.9	-27.8 185.6	-30.8 261.7
3rd	-95.8	-241.1 -12	-108.2 -241.7	91.9 -108.3	-13.7 -82.4	23.7 52.5
4th	83	17.8 -123.3	36.6 89.9	19.4 22.3	-12.7 124.4	-92.5 552.1
5th	55.9	-22.9 -88.9	84.2 20.1	31.7 -102.2	-55.8 -46.3	-27.9 151.2
6th	-32	19.4 3.5	10.7 33.9	-11.1 -13.8	-3.9 -12.1	-0.8 -5.4
7th	-6	-6.4 37.6	13.4 -11.7	2.9 41.3	-0.8 32.1	-1.1 -1.3
8th	5.8	-81.1 -115.3	-164.3 13.8	-52.8 -122.9	-198.1 -94.5	-181.2 -36.5
						-89
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
46/23	-1996.6 819.7 1676.8	-436 119.2 219.6	-177.7 1057.3 1482.5	-7806 481.7 1097.3	-514.1 110.7 202.4	-63.3 14.6 24.6
HARMONIC	COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE
1st	-65.9	-253.8 -71	145 467.6	1381.9 -16.3	-597.1 -122.8	-81.1 -0.8
2nd	272.3	-148.7 -32.9	6.1 -158.8	34.2 -107.7	36.1 2	2.9 -20
3rd	152.6	121.9 27.2	-3.3 97.8	229.7 -1.8	109.1 2.9	-30 1.1
4th	707.7	-703.4 -4.5	-8.8 91.8	21.3 -34.3	24.1 -5	-12.8 -0.1
5th	268.3	185.3 -1.8	0.4 -37	44.6 78.3	-97.1 -0.9	1.7 0.1
6th	-7.3	3.2 0.9	-2.7 -32.4	16.4 4.8	4.4 -2.8	3.1 0
7th	-34.7	-12.3 1	-0.6 6	9.5 26.5	-3.2 1.8	-0.5 0
8th	55.3	84 -4.4	9.7 4.1	-60.6 -93.1	-183.4 -4.6	10.5 -0.3

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
46/24	Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.570	Blade 1, r/R=0.570	
MEAN	-453.7	45.9		315.2		382.9		375.7		-41.3	
RMS	489.7	285.5		112.8		183.4		215		373.6	
1/2 P-P	925.1	552.8		230.8		432.5		469.5		717.9	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-471	384.7	-299.6	196.7	-109.4	-6	-34.6	-145.6	-23.7	-182.1	
2nd	144.6	-69	85.8	-36.8	5.6	-2.6	-59.4	19.5	-82.4	27.7	
3rd	233.4	-105.8	131.5	-56.6	3.8	-13.4	-96.4	22.8	-131.1	44	
4th	81	13.6	46.1	6.3	7.2	-8.1	-31.1	-20.7	-48.9	-20.2	
5th	-21.7	-73.6	-7.9	-28.6	0.1	29.8	7.3	84.8	15.5	101.5	
6th	30.3	-19.3	11.5	-5.4	-14.7	8.3	-44.6	17.7	-54	25.7	
7th	3.3	-2.7	4.2	-1.3	4	0.4	4.6	-1.4	3	-2.8	
8th	17.7	-54	-2.8	-8.1	-37.3	54.1	-59.9	100.4	-48.3	99.5	
										-98	
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		
46/24	Blade 1, r/R=0.725		Blade 1, r/R=0.800		Blade 1, r/R=0.900		Blade 1, r/R=0.144		Blade 1, r/R=0.570		
MEAN	-380.2		-658.7		-641.9		-8079.8		-2794.6		
RMS	451.4		470.9		359.1		1030.2		1015.5		
1/2 P-P	921.2		958.8		873.8		1749.2		2200.4		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-0.5	-337.1	42.5	-256.2	15	-75.7	-1401.7	-157.7	-341.9	202.6	
2nd	-327.1	95.1	-368.3	76.2	-215.8	37.7	11.2	78.6	216	-130.3	
3rd	-259.7	213	-230.7	243.7	-217.2	186.8	102.7	1.8	-196.6	-128.4	
4th	21	42	62.5	49.6	72.2	64.5	-96.9	35	959.3	-781.6	
5th	7.2	-208.8	-9.5	-258.2	38.3	-192.2	104.3	132.2	-234.7	-341.3	
6th	63.1	-51.8	39.1	-48.7	-23.5	-34.7	-20.5	-12.9	4	-4.6	
7th	-12.7	-1.7	-23.3	-5.9	-42.3	15.7	14.3	-8	-16.2	6	
8th	-37	40.6	-100.2	158.9	-81.6	162.3	-108.5	-209.9	125.3	-0.2	
										7.6	

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
46/24	-511.3	-5692.7	-381.9	-5932.5	-2770.9	-1303
MEAN	332	1268	352.5	1435	1215.6	943.8
RMS	737	2147.5	752.9	2257.5	1957.5	1969.6
1/2 P-P						
HARMONIC	COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE
1st	-286	-152.1 264.3	-1733.7 179.2	-328.6 1971.8	292.9 1666.8	242.5 1018.5
2nd	-107.5	67.9 -7.4	-101.3 107.3	-72.2 60.3	121.3 76	87.2 195.5
3rd	-120.2	-244.9 -13.9	-112.5 -250.8	111.8 -97.9	14.3 -79.8	29.2 49.4
4th	74.5	13.2 -127.5	33.4 77.6	10.4 30.5	0.7 128.3	-96.2 569.5
5th	80.9	-31.9 -124.1	98 19.6	58.7 -118.6	-108.4 -55.7	-52.8 152.3
6th	-28.5	23.1 21.9	22 26.3	-17.6 -14.9	-9.5 -12.2	-5.3 3
7th	-1.1	-0.8 22.2	3.1 -6.9	0.7 38.9	0.7 30.9	0.2 -12.5
8th	14.8	-93.3 -126.1	-190.3 14.2	-58.7 -126.4	-222.3 -94.4	-200.8 -42.5
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
46/24						
MEAN	-1953	-434.9	-271.5	-7581.9	-510.4	-64
RMS	973.7	121.1	422.5	1260.4	111.4	3.2
1/2 P-P	2064.5	224.3	874.1	2039.1	202.8	8.8
HARMONIC	COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE
1st	653.2	-141.5 -84	139.5 389.5	287.8 -419.9	1696.1 -117.8	-90.6 -0.6
2nd	227.8	-103.9 -36.1	12.1 -149.7	67.4 5.8	-94.3 37.6	-3.1 2.5
3rd	152.8	131.8 31.6	-7.4 132	234.9 -8.5	103.1 -2.2	-30 0.9
4th	720.5	-790.6 -3.4	1 85	16.5 -15.3	57.9 -1.5	-7.7 -0.3
5th	280.1	302.8 0.4	-0.5 -59.5	57.7 119.8	-114 -1.8	2.4 0
6th	5.6	13.3 1.4	-4 -28.3	19 5	12.1 -1.9	2.7 0
7th	-39	-11.7 0.2	1 3.9	31.9 -13.4	-0.9 -0.2	0 0
8th	55.7	91.3 -4.3	9.3 2.1	-77.7 -101.8	-204 -4.4	11.5 0.1

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570
MEAN	-319	133.8	351.7	413.2	399.5	-30.5		
RMS	303.8	196.6	175.2	242	269.1	479.6		
1/2 P-P	608.9	400	369	522	571.4	882.9		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	166.6	-210.6	103.4	-173.7	107.8	-201.7	119.2	-280.3
2nd	30	-302.8	26.9	-170.3	-0.4	-28.2	-29.8	125.2
3rd	97.6	-56	58.4	-34	10.2	-17.6	-26.4	66.7
4th	36.7	6.7	23.2	0.1	7.6	-12.3	-9.7	-43.2
5th	-7.8	-13.4	0.3	-4.1	9.2	6	15.4	-18.2
6th	15.9	-16.5	8.3	-6.8	-2.5	2.7	-14.2	17.4
7th	-3.1	-4.1	2.6	-3.6	9.3	-1.5	13.7	14.2
8th	-0.8	-56.3	-10	-9.6	-25.9	56.8	-36.2	17.4
RUN/POINT	Flap Bending, in-lb	Flap Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb		
46/19	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.570		
MEAN	-440.8	-713.8	-674.7	-7397.4	-2707.9	-475.8		
RMS	523.8	470.9	305.4	2578.1	1133.9	174.6		
1/2 P-P	955.6	976.3	886.6	4130.5	2569.6	289.2		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	231.4	-499.2	169	-373.1	-19.9	-104.6	-3371.5	1219.1
2nd	-332.3	174.3	-303	116.2	-158.2	30.5	165.1	499.6
3rd	-125.7	266	-161.1	288.2	-134.8	206.6	82.3	-80.8
4th	12.8	32	49	73.3	9.8	89.3	-57.9	39.3
5th	-6.4	-68.5	19.3	-116.5	61	-74.4	46	41.8
6th	50.3	-25	14.3	-40.9	5.4	-48.7	-17.7	2.5
7th	9.7	-17.4	5.6	15.3	-36	19.6	-15.7	-4.9
8th	-35.5	32.3	-49.4	164.9	-47.4	205.7	-247.3	-223.6

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
MEAN	-386.9	-5019.5	-282.2	-5216.6	-2174.9	-999.5
RMS	554.4	2888.6	543.1	3100	2597.5	1781.5
1/2 P-P	938	4530.1	917.8	4802.4	4087	3167.8
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	365.7	610.7	-1086.5	-3875.4	-616.4	306.4
2nd	26.2	264.4	-181.5	-546.7	-29.8	-290
3rd	-71.2	-142.6	-90.6	-71.5	-125.8	74.4
4th	40.9	18.4	5.9	96.4	46.2	14.7
5th	35.7	-3.7	-38	44.5	25.2	11.6
6th	-21.6	11.9	35.1	-0.3	17.7	-14.7
7th	-1.8	4.1	-5.7	-6.1	0.8	0.9
8th	-7.4	-78.7	-250.7	-190.3	-18.9	-65.9
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
46/19	-1795.9	-465.4	-149.1	-6903.8	-535	-73.6
MEAN	1411	198.3	409.1	2827	181.6	21.7
1/2 P-P	2847.7	320.1	717.1	4374.5	299.4	36
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	1543.7	-741.7	-158.2	216.4	-249.4	-404.9
2nd	183.6	54.3	-49.6	61.9	-38.2	287.2
3rd	120.9	44.8	15.3	8.2	70.3	93.4
4th	291.2	-901.3	4.9	6.8	45.1	7.2
5th	167.1	144.2	0.3	-2.5	-3.3	11.9
6th	14.2	-8.1	2.7	-2.5	-17.1	15
7th	-1.4	-12.1	-2.1	-1	3.5	-0.8
8th	112.5	77.6	0.8	5.7	-24.9	-78

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
		Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.325	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570
MEAN	-424	65.2	320.6	393.6	385.2	-47					
RMS	1374.9	825.1	305.2	205.5	235.6	449.4					
1/2 P-P	1939.7	1171.8	524.4	512.4	543.8	854.5					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-1829.3	606.5	-1114.9	310.1	-416.3	-0.9	-83.6	-210.4	-18.3	-265.7	131.7
2nd	104.8	-176.2	70.3	-95.6	13.5	-1.9	-34.2	65.9	-58.2	86.6	-234.1
3rd	102	-52.8	59.5	-31.7	5.8	-16.2	-35.9	3.7	-55.8	21.8	-137.6
4th	33.4	3.3	20.7	-2.9	6.8	-16.2	-7	-23.8	-18.7	-20.5	-42.3
5th	-4.1	-43	3.1	-16	8.1	16	12.5	49.9	11.9	67	5.6
6th	27	-21.7	13.2	-9.1	-6.3	3.2	-24.5	14.3	-30.5	24.3	25.7
7th	-5.4	-9.6	0.4	-7.2	6.8	-2.8	13.7	4.6	14.9	8.7	-12.9
8th	-10.4	-63.6	-10.1	-11.6	-14	63.3	-15.3	122.1	-4.7	122.3	54.5
MEAN	-436.4	-702.1	-658.6	-7732.6	-2741.4	-465.9					
RMS	522.5	493.9	350.8	1182	816.7	163					
1/2 P-P	1043.1	1084.8	976.7	2191.7	1827.9	276.5					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	191.1	-471	168.4	-359.3	28.7	-116.1	1588.5	271.7	28.7	423.2	116.3
2nd	-366.8	169.9	-329.9	134.9	-154.9	68.9	161.4	-50.1	248.1	-194.1	-185.3
3rd	-114.5	257.4	-151.3	276.2	-136.6	203.3	95.8	-45	-144.4	-3.5	-54.7
4th	6.2	45.6	52.5	87.2	18.4	93.5	-69.5	34.1	510.7	-743.1	1.1
5th	-1	-144.6	20.4	-207.4	70.5	-138	58.6	66.9	-156.1	-221.7	-2.3
6th	66.1	-30.6	23	-47	0.3	-53.1	-4.9	-7.3	0.1	14.1	4.3
7th	6.4	-23.3	10.1	16.7	-32.7	26.1	6.6	12.4	-8.3	1.9	-5.1
8th	-30.6	40.6	-13.6	189.4	-1	236.2	-263.2	-181.4	275	167.6	-1.7
											5.2

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
46/20	-472.2	-5322.6	-359.3	-5548.4	-2457.8	-1147.6
MEAN	1061.8	660.2	1094.1	669.2	504.6	55.1
RMS	1529.2	1456.2	1516.7	1433.8	1116.3	1160.9
1/2 P-P						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-478.4	-1397.2	-53.9	828.6	1434	-820.2
2nd	-49.8	160.1	-166.5	-16.6	53.9	-176.3
3rd	-77.4	-144.9	-33.4	-85.9	-120.7	85.6
4th	42.8	10.8	-13.1	42.3	42.5	10.1
5th	59.1	-7.4	-62.1	68.9	33.4	36.4
6th	-28.3	23.7	8.8	-5.1	25.4	-21.8
7th	-8.9	5.9	10.1	22.8	2.9	6.5
8th	-19.7	-88.7	-276.1	-154.3	-26.4	-59.9
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
46/20	-1863.3	-453.9	-238.3	-7243.9	-524.6	-71.1
MEAN	703.3	186	1245	930	171.8	12.2
RMS	1470.5	307	1775.2	1848.5	284.6	23.4
1/2 P-P						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-9.1	-385.4	-124.1	221.1	631.3	1620
2nd	240	-129.9	-44.2	45.9	-119.3	185.9
3rd	134.1	17	23.4	-0.8	74.9	101
4th	229.4	-733.5	-0.4	6	43.7	5.1
5th	245	223.8	0.8	-1.1	-29.5	15.7
6th	11.9	-8.7	2.7	-2.9	-26.8	19.5
7th	-24.4	-22.9	-0.6	1.9	7.7	-4
8th	119.2	66.6	1	5.8	-29.2	-66.2

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
46/21	-330.5	-5067.3	-221.8	-5262.6	-2225.9	-1054
MEAN	264.5	2058.8	275.5	2257.8	1913.7	1373.5
RMS	563	3305.7	559.1	3557.4	3028.5	2592.6
1/2 P-P						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-120.8	177.3	-308.2	-2836.4	-176.6	-164.3
2nd	47.8	231.9	-167.4	-389.4	-54.7	-246.8
3rd	-57.8	-135.5	-80.3	-86.8	-116.9	63.4
4th	44	16.5	-32.3	67.5	44.5	13.6
5th	57.1	-11.6	-7.3	58.4	26.3	31.4
6th	-17	12	32.4	9.7	12.2	-14.5
7th	-2.1	3.8	12.3	-13.4	1.3	2.4
8th	-23.8	-77.9	-295.3	-122.5	-30.4	-59.2
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
46/21	-1806.1	-460.3	-92.5	-6949.8	-529.9	-70.5
MEAN	1168.1	192.4	275.9	1936.3	176.6	13.7
RMS	2349.6	316.8	588.4	3071.8	290.8	24.7
1/2 P-P						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	1226	-481.2	-148.4	215.7	250.1	32.4
2nd	179.7	-7.1	-41.8	55.4	-20.2	256.5
3rd	117.2	59	18.2	4.5	54.7	85.7
4th	364.1	-820.3	5.5	4.9	41.6	7.7
5th	173.6	233.3	1.9	-3.9	-25.8	14.5
6th	3.2	7.1	1.4	-2.8	-18.3	16.4
7th	-19.9	5.4	-2.1	0.5	4.6	-2.5
8th	131.8	62.4	0.7	5.5	-30.6	-67.9

RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.144	Flap Bending, in-lb Blade 1, r/R=0.167				Flap Bending, in-lb Blade 1, r/R=0.215				Flap Bending, in-lb Blade 1, r/R=0.280				Flap Bending, in-lb Blade 1, r/R=0.325				
		SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	
MEAN	-271.8	171.2		357.6		425.4		416.5		13.5								
RMS	575.7	346.6		233.7		320		367.2		648								
1/2 P-P	1107.1	662.4		421.2		546.1		612.8		1103.5								
HARMONIC																		
1st	365.2	-195.4	231.6	-174.2	197.1	-241.3	221.8	-353.2	242.3	-401.2	429.3	-699.4						
2nd	-259.4	-633.3	-138.3	-359.2	-51.4	-58.2	2.2	136.7	13.4	192.5	-108	357.3						
3rd	5.4	-71.1	8.5	-43.3	7.6	-19.8	19.6	-5.6	28	5	6.7	153.2						
4th	-1.1	-6.2	6	-4.5	10.8	-1.5	12.8	-3.7	11.8	-4.1	-23	5.5						
5th	27.9	41.7	15.6	15.1	5.5	-20.4	-8.5	-58	-18.4	-69.5	-35.8	11.3						
6th	10.1	-14.6	6.4	-4.7	1.5	7.7	-7.4	18.7	-9.3	19.4	-4.9	-6.2						
7th	6	-2.7	5.3	-1.6	2	-0.4	-4.7	-0.9	-9.8	-2.3	2.6	8.3						
8th	7.1	-21	-3.1	-5.3	-20.3	16.6	-35	34.1	-32.7	34.6	46.9	-23.2						
RUN/POINT																		
46/16	Flap Bending, in-lb Blade 1, r/R=0.725		Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Chord Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400							
MEAN	-422.2		-693.4		-676.4		-5636.2		-2509.4		-512							
RMS	632.7		506.2		283.3		3276.8		1217.5		253.9							
1/2 P-P	1063.8		1001.5		763.3		5313.2		2516		424.5							
HARMONIC																		
1st	390	-671.5	218.8	-515.9	-69.4	-158.9	-4087.2	1871	-1241.9	943	214	-246.2						
2nd	-174.1	256.5	-164.6	161.7	-130.6	16.9	456.1	950.7	174.3	-2.6	-77	121.3						
3rd	0.5	261.3	-1.1	277.2	23.2	188.3	19.3	-99.9	-37.8	106.1	-13.7	-26						
4th	-50.1	63.5	-69.8	98.7	-74.9	103.6	36.8	48.5	-164.4	-563.4	5.5	27.2						
5th	70.6	105.5	118.6	132.2	91.7	102.6	-20.4	-41.6	29.4	76.8	5.4	2.4						
6th	33	-26.6	66.1	-33.3	80.4	-22.4	3.1	14.5	0.9	-24.6	3.6	-1.7						
7th	18	-10.1	0.7	-16.1	-7	-11.1	-10.4	-22.3	14.9	21.2	2.5	0.6						
8th	-5.2	6.8	-52.1	46.8	-81.4	55.4	-134.3	-133	145.9	128.5	-1.4	2.2						

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
46/16	-385.2	-3368	-264.7	-3539.8	-756.5	-274.5
MEAN	905	3929.6	910.5	3946.7	3299.4	2228.1
RMS	1660	6330.3	1731.6	6242.8	5142.6	3620.6
1/2 P-P						
HARMONIC	COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE
1st	434.8	990.2 -1795.3	-5120.6 -1013.2	309.8 5168.2	-1704.5 4347.5	-1375.1 2846.9
2nd	315.6	585 -498	-1021.7 -312	-640.4 422.8	1103.9 319.1	882.8 213.3
3rd	-78.2	-40.3 -125.5	20.5 -17.5	75.5 20.2	123 25.7	90.7 65.8
4th	12.3	14.1 94.3	30.8 1.7	-4.9 44	-22.1 22	-58.6 -84.3
5th	-45.3	34.2 35.8	-16.9 -28.6	-66.5 60.5	60 36.2	32.6 -32.3
6th	-11.6	13.4 -2.8	-14 10.2	-9.8 -1.5	28.6 -7.4	19.5 -24
7th	2.8	-11.6 -20.6	-23.8 -10.5	0.2 -48.8	-9.9 -42.6	-12.7 -14.8
8th	10.8	-24.3 -139.1	-111.7 2.4	-21.6 -156.4	-119.9 -130	-117.9 -65.7
46/16	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
MEAN	-1442	-507.8	-94.5	-5198	-574.4	-91.6
RMS	1653.3	287.2	702.4	3669.8	259.7	35.8
1/2 P-P	2816.1	469.3	1392.1	5714.8	437	56.4
HARMONIC	COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE
1st	1984.4	-1118.4 -228.2	293.6 -269.4	-672.4 1722	4765.9 -249.7	-228 32.8
2nd	153.6	126 -62.4	142.7 235.3	618.3 -395.8	-981.8 84.3	-105 6.6
3rd	53.7	-94.4 18.9	35.7 61	-24.3 115.9	28.3 34.5	-21.6 0.1
4th	-157	-334.9 15.6	21.8 -5.8	-3.8 16.7	19.9 7.9	21.5 0.1
5th	-86.5	-139.7 -0.7	-0.2 59	-31.1 -60.7	4.2 0.7	-3.7 0
6th	-23.2	-36.6 1.9	-0.1 -7.9	13.5 8.1	-2.8 -2.5	1.1 0.1
7th	13.5	-6.8 -2	-0.1 0.8	7.8 -14.7	-9.2 -0.2	0.6 -0.1
8th	61.3	47.8 -0.2	3.3 2.6	-39.4 -132.4	-127.6 -1.9	4.6 0

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
		Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.570	Blade 1, r/R=0.570	
MEAN	-94.4	274.5	399	433.3	419.1	20.6			
RMS	1419.4	837.4	277	247.4	306.5	605.4			
1/2 P-P	2188.6	1289.6	529.8	519.2	579.1	1129.8			
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-1821.9	668.4	-1100.1	331.6	-373.9	-35.8	-1.7	-288.9	
2nd	-104.9	-456.2	-47.5	-255.2	-20.3	-23.1	-3.5	132.8	
3rd	-10.4	-153.9	-0.9	-87.9	-2.6	-18.2	10	31.4	
4th	12.9	2.3	9.7	-1.8	0.4	-6.5	-10.8	18.8	
5th	13.6	32.8	10.5	12.1	11.9	-14.6	8	-15.6	
6th	30.3	-6.8	15.6	-3.2	-2.2	-0.7	-21.3	0.2	
7th	9.7	-2.8	8.6	-1.8	6	-1.8	0.2	-26	
8th	4.3	-42.9	-6.2	-11.9	-24.5	33.3	-37.7	-3.3	
RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
46/17	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.400	
MEAN	-427.6	-710.3	-700.9	-6412.2	-2601.1	-497.4			
RMS	615.3	519.3	332.3	1097.7	806.8	233.2			
1/2 P-P	1121.7	1132.4	1013.4	2064.4	1817.9	406.3			
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	349.9	-600.9	219.2	-458.8	-22.4	-153	1353.3	510.6	
2nd	-256.8	236	-220.2	178.5	-129.2	69.7	335.7	98	
3rd	-35.1	341	-56.6	345.5	-32.3	246.4	82.8	-116.4	
4th	-3.9	89.8	-9	128.9	-33.5	116.3	5.9	19.8	
5th	43.4	56.3	91.6	89.8	85.2	80.1	11.6	-21.3	
6th	53.2	-17.7	80.5	-40.7	85	-24.4	1.2	-4.8	
7th	14.6	-11.2	-0.2	-37.2	-9.9	-43.5	13.9	16.3	
8th	-9.2	6.5	-58	100.7	-84.4	110.3	-205.7	-178.8	

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144				Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144				Chord Bending, in-lb Blade 3, r/R=0.174	
		SINE	COSINE	SINE	COSINE		SINE	COSINE	SINE	COSINE	SINE	COSINE
MEAN	-173.3	-4070.3	-65.6	-4206.8	-1310.7	-556.9						
RMS	983.1	512	1011.2	512.9	452.3	651.7						
1/2 P-P	1656.7	1235.7	1674	1285.2	1178.8	1649.7						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-448.8	-1210.8	-404.3	71.5	1181.2	-559.8	57.5	-249.4	166.9	-272.8	363.5	-542
2nd	149.9	433.6	-333.6	-269.3	-157	-506.5	371.9	360.3	310.4	262.3	270.5	-4.5
3rd	-190.4	-19.2	-105.2	-61.7	14.4	187.2	-76.9	124.2	-41.5	87.8	92.1	-55.5
4th	27.4	24.9	100.5	20.4	13.8	2.5	23.8	-32.8	-34.8	-81.9	-312	-333.3
5th	-38.2	2.6	28	8.1	-17.8	-61.5	5.3	45.9	5.2	22.9	27.3	-65.7
6th	-33.3	4.7	-3.4	-2	25.7	-5.7	-1.6	-8.5	-1.3	-5	-13.2	-6
7th	-2.1	-12.7	14	19.5	-18.5	6.3	21.8	18.7	13	11.7	1.2	-20.7
8th	13.1	-51.3	-221.3	-156	5.1	-37.4	-219.4	-175.8	-178	-168.6	-88.2	-82.2
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400				Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144				Pitch Link, lb Blade 1	
46/17	-1603.2	-492.2	84	1227.4	670.3	-5917.1	-559.7				-80.7	
MEAN	786.3	265.1	1946.5	1946.5	1450.8	1423.3	241.5				14.4	
RMS							412.3				25.9	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	419.4	-639.4	-190.8	294.3	678.5	1507.1	124.8	-762.4	-250.9	-197.9	16.6	-5.5
2nd	231	-117	-58.3	111.4	83.4	474	-276.2	-204.6	78.3	-80.5	6.2	-7.7
3rd	135.6	-125.3	21.1	14.4	156.4	-57.3	113.1	101.1	16.5	-21.7	0.3	0.6
4th	-479.7	-417.2	5.6	27.2	10.6	4.7	-1.1	-3.6	-1.9	26.7	0.3	-0.1
5th	18.7	-108.2	-3.1	1.2	60.3	-12.9	-39.2	-25.5	-0.6	-4.5	0	0
6th	-6	2.2	2.3	2.1	-24.4	6.7	2.9	3	-3	-0.8	0	-0.1
7th	-13.1	-27	0.5	1.2	7.7	10.2	13.3	15.2	0.5	0.8	0.1	-0.1
8th	86.6	70.9	-0.5	4.5	-7.7	-50	-187.6	-176.8	-1.9	6.3	0.2	-0.1

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570		Flap Bending, in-lb Blade 1, r/R=0.570		
46/18	MEAN	-258.9	180.3	363.5	431.4	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3	
	RMS	555.5	305	151.4	268.1	318.4	318.4	318.4	318.4	318.4	318.4	318.4	318.4	318.4	318.4	
	1/2 P-P	991.3	543.1	294.2	475.8	554.6	554.6	554.6	554.6	554.6	554.6	554.6	554.6	554.6	554.6	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	
1st	327.1	421	203	199.5	178.1	-76.3	203	-278.5	221.9	-338.3	392.9	-619	-619	-619	-619	
2nd	-174.7	-538.4	-90.2	-304	-36.3	-46.3	-5.1	122.3	0.5	171	-128.2	308.3	308.3	308.3	308.3	
3rd	-12.7	-82.4	-3.1	-50.3	2.6	-18.2	18.3	2.5	26.6	17.2	-10.1	195.2	195.2	195.2	195.2	
4th	16.2	-3.5	13.7	-3.7	8.1	-3	-0.4	-5.1	-5.9	-5.1	-34	-1.5	-1.5	-1.5	-1.5	
5th	-19.8	8.3	-1.5	2.1	23.1	-3.9	40.5	-12.8	41.8	-18	-32.2	12	12	12	12	
6th	12.2	-8.4	8.2	-2.5	3.2	3.7	-6.6	9.8	-9.8	10.2	-6.9	1	1	1	1	
7th	-1	0.3	3.9	-0.6	9.5	-1.4	10.1	-2.3	4.3	-5.3	-14.4	9	9	9	9	
8th	2.8	-24.7	-4.1	-4.8	-16.2	24.7	-27.1	47.6	-25.3	45.8	40.5	-38.7	-38.7	-38.7	-38.7	
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Flap Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400		Torsion, in-lb Blade 1, r/R=0.400		
46/18	MEAN	-393.9	-671.9	-673.5	-5506.7	-2496	-2496	-506	-506	-506	-506	-506	-506	-506	-506	-506
	RMS	583.5	474.9	272.9	2697.2	1064.8	1064.8	237	237	237	237	237	237	237	237	237
	1/2 P-P	1024.7	1002.8	705.4	4421.6	2364.3	2364.3	399	399	399	399	399	399	399	399	399
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	
1st	363.1	-58.1	204	-457.6	-67.7	-155.2	-371	303.1	-1171.4	584.5	198.6	-233	-233	-233	-233	
2nd	-198	220.8	-183.9	148	-128	30.2	225.4	724.2	121	-11.9	-83.8	101.9	101.9	101.9	101.9	
3rd	-37.8	314.7	-49.2	334.1	-20.3	240.5	60.1	-122	-97.8	93.2	-4.7	-19.4	-19.4	-19.4	-19.4	
4th	-18.8	43.9	-27.8	72.6	-45.9	78.8	-3.7	57.4	-64.3	-607.9	5.3	25.4	25.4	25.4	25.4	
5th	-45.4	7.8	-25	21.9	-4.5	29.3	53.3	-16	-113.4	-32.4	2.5	0.1	0.1	0.1	0.1	
6th	33.6	-26.7	65.6	-38.6	78.1	-22.7	-2.9	3.2	6.5	-14.6	3.4	-1.7	-1.7	-1.7	-1.7	
7th	13.8	-9.6	11.5	-25.4	4.8	-25.4	-24	-8.6	30.9	13.9	1.5	-0.2	-0.2	-0.2	-0.2	
8th	-7.9	8	-36.7	59.6	-54.2	62.4	-132.6	-131.7	149.8	121.7	0.7	2.3	2.3	2.3	2.3	

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
46/18	-371.9	-3265.2	-259.3	-3449.3	-681.6	-235.6
MEAN	783.2	3448.2	841.3	3531.4	2946.8	1968.3
RMS	1344.7	5300.6	1423.4	5416.6	4469.8	3311
1/2 P-P						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-182.6	939.2	-316.9	-4779.2	-977.7	-304
2nd	232.4	491.5	-254.4	-815.2	-225.4	-548.5
3rd	-86.5	-25.6	-149.8	-23.4	0.3	81.7
4th	26.9	10.5	53.5	56.2	25.4	-16.2
5th	-16	-24.1	25.1	39.9	18.3	-50.4
6th	-15.2	8	16.5	0.5	13.3	-7.3
7th	3.2	-3	-17.7	-5.9	-3	-0.3
8th	3.4	-28	-137.8	-117	-6.5	-20.5
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
46/18	-1425.2	-501.5	-76.1	-5085.7	-567.9	-89.8
MEAN	1460.9	268.5	649.6	3141.8	242.5	28.8
RMS	2632.2	442.3	1083.4	4858.9	401.6	45.8
1/2 P-P						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	1897.1	-595.4	-212.3	279.5	372.8	-629
2nd	73.6	73.6	-69.2	120.7	146.3	522.7
3rd	74.6	-88.4	11	28.9	69.8	-36.6
4th	-187	-372	6.3	23.8	18.7	-3.7
5th	148.2	-107.7	0.6	-1.8	45	26.7
6th	-3.7	-24.5	3	-0.2	-13.3	9.1
7th	13.9	-19.4	-1.2	-0.1	1	-27.7
8th	58.5	44.9	0.2	2.3	-7.5	-35.9

RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.144	Flap Bending, in-lb Blade 1, r/R=0.167	Flap Bending, in-lb Blade 1, r/R=0.215	Flap Bending, in-lb Blade 1, r/R=0.280	Flap Bending, in-lb Blade 1, r/R=0.325	Flap Bending, in-lb Blade 1, r/R=0.570
MEAN	-117.2	278.3	388.2	448.8	441.6	83.4
RMS	841.3	478.2	201.7	353.2	425.6	786.5
1/2 P-P	1567.6	889.1	411.8	613.1	707.5	1297.7
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-260.9	97.6	-142.9	-10	59.8	-215.8
2nd	-685.5	-908.5	-386.9	-521.8	-143.3	-75.6
3rd	-42.4	-141.3	-18.5	-86.8	-3.3	-30.5
4th	-49.7	-17.9	-19	-7.6	13.1	12.8
5th	-0.9	-4.1	6.2	-7.6	14.4	34.4
6th	5.9	-15.1	6.2	-2.9	6.7	-11.6
7th	11.8	-14.3	5.8	-4.3	-6.7	9.6
8th	12.1	2	9.4	1.8	3.8	-1
					-4.1	-0.8
					-1	-10.3
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800	Flap Bending, in-lb Blade 1, r/R=0.900	Chord Bending, in-lb Blade 1, r/R=0.144	Chord Bending, in-lb Blade 1, r/R=0.570	Torsion, in-lb Blade 1, r/R=0.400
MEAN	-330.1	-616.6	-643.1	-2476.9	-2070.3	-562.3
RMS	732.8	571.7	312.5	2949.6	1467.5	345.2
1/2 P-P	1243.3	1133.7	712.4	5179.3	3195.2	583.5
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	450.2	-785.8	242.5	-617.6	-99	-2784.9
2nd	-112.4	346.1	-162.3	200.3	-202	5.2
3rd	188.8	237.4	216.8	227	192	-61.4
4th	-93.3	29	-119.9	51	-90.5	69.8
5th	-43.9	10.1	-57.4	2.8	-56.7	6.8
6th	21.7	-16.3	45	-20.4	43.3	-21.5
7th	10.1	2.9	25.4	7.1	26.9	14.6
8th	10.3	1.1	-15.6	-6.5	-28.7	-1.6
					23.4	47.5
					-1.6	-26.9
					47.5	-26.9
					-51.1	-0.5
					-51.1	-0.5

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
46/13						
MEAN	-249	-291.3	-101.8	-1194.3	1218.3	819
RMS	866.8	3845.8	945.8	3810.4	3203.7	2272.1
1/2 P-P	1574.5	6557.3	1767.3	6702.6	5459.9	3913.4
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	168.8	449.2	-2563.7	-442.8	-545.2	-7.2
2nd	698.1	863.7	-1149.8	-1297.6	-719	-970.5
3rd	-155.1	5.1	-132.7	99	24.7	121.4
4th	-34.7	-1.1	202.8	-9.2	-48.9	-26.8
5th	-31.6	3.4	80.3	-37.7	-17.7	-54.7
6th	-1.7	16.1	-20.3	-12.4	5.2	-14.3
7th	-7.1	-12.6	-13.3	-9.4	-16.4	15.3
8th	4	3.2	32	40.7	6.9	8.1
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
46/13						
MEAN	-780.6	-565.3	48.3	-2101.8	-627.4	-118.9
RMS	1895.2	389.8	804	3310.8	349.2	37.1
1/2 P-P	3830.6	639.3	1312.5	5664.9	594.5	59.5
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	1833.1	-1375.4	-289.1	385.3	36.2	-66.4
2nd	269.9	152.7	-43.3	249.4	646.8	908.5
3rd	-69.2	-139.2	49.2	50.3	120.8	-86.1
4th	-1063.8	395	21.8	43.4	-64.8	-19.2
5th	12.7	-224.3	5.8	5.3	30.1	-5.7
6th	15.5	-53.7	3.8	0.1	-4.2	12.4
7th	1.2	-21.5	0.6	-2.7	11	6.5
8th	-10.4	-11.9	-1.2	0.2	2.5	3.1

		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
RUN/POINT		Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570
MEAN	-56.6	308.7	401.4	447.7	437.2	63.9			
RMS	1725.9	1008	303.3	285.5	371.6	738.6			
1/2 P-P	3028.4	1748.6	490.6	536.9	683.1	1214.5			
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-2005.8	907.6	-1206	467	-400.3	-18.4	24.5	-331.6	122.3
2nd	-616.7	-831	-347.5	-475.1	-128.3	-56.3	4.8	210.9	48.9
3rd	-66.2	-133.8	-31.9	-82.1	-8.5	-26.2	20.7	5.2	40.9
4th	-56.5	-11.9	-26.1	-4.7	4.7	12.5	23.3	22.8	28.7
5th	-30.3	-37.8	-5.8	-20.3	21.6	1.4	42.7	23.7	47.8
6th	1.8	-17.5	4.2	-4.3	6.1	12.4	6.1	23.9	4.2
7th	12.6	-8.3	8.7	-1.2	-0.4	8.6	-9.2	18	-12.7
8th	7.1	1.2	9.4	1.4	9	-1.7	3.8	-1	-3.7
RUN/POINT	Flap Bending, in-lb	Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
46/14	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.400	Blade 1, r/R=0.400
MEAN	-360.3	-645.7	-657.8	-3308.1	-2168.8	-547.9			
RMS	727.2	579.4	299.5	1814.5	1054.7	328.5			
1/2 P-P	1295.4	1182.9	737.2	3449.3	2473.6	558.8			
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	429.3	-769.6	254.3	-615.4	-54.9	-231.8	2152.6	863	-211.8
2nd	-128.7	384.8	-162.3	257.1	-179.4	63.9	946.4	343.9	164.9
3rd	159.1	239.3	176.7	229.8	159.3	131.1	-25.4	-153.3	50.9
4th	-80	30.9	-99.6	49.2	-77.7	68	102.8	5	-984.3
5th	-116.6	-60.6	-144.1	-66.7	-114.5	-36	41.6	43.3	-133.6
6th	11.2	-19.6	23.7	-25.2	29	-22.8	3.6	19	-164.9
7th	14.5	7.3	12.6	21.7	12.3	25.3	36.8	12.1	-48.8
8th	8.8	1	-13	-8.2	-27.9	-7.3	79	59.7	13

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
46/14							
MEAN	-172.2	-1000.9	2.2	-1982.1	555.9	474.9	
RMS	1245.4	1011.2	1285.4	912	742.2	820.9	
1/2 P-P	2347.6	2178.2	2369.6	1844.4	1526.5	1941.2	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-664.9	-1254	-779.7	237	1202.1	-792.8	-177.6
2nd	637	800.3	-931.3	-567.7	-645	-879.5	940.3
3rd	-152.8	49.4	-169.7	33	82.9	129.5	28
4th	-35.6	4.2	154.6	-41.7	-49.5	-6.6	45.9
5th	-0.7	-44.7	-12.8	30.3	19.3	-22.5	-20.6
6th	-3.4	12.3	8.1	2.3	4	-13.6	-20.9
7th	-6.1	-12.4	20.2	-8.2	-11.3	12.9	6.9
8th	0.4	3	71	50.5	10	14.8	71.3
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.400	Chord Bending, in-lb Blade 4, r/R=0.144	Flap Bending, in-lb Blade 4, r/R=0.400	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
46/14							
MEAN	-977.6	-546.9	134.3	-2952	-611.1	-108	
RMS	996.4	370.3	1519	1245.3	333.6	21.3	
1/2 P-P	2452.1	609.6	2677	2384.5	554.5	38.7	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	405.6	-785.7	-254.9	391.1	910.2	1654.8	533.3
2nd	199.6	-70.4	-31.4	226.2	565.6	828.6	-840.7
3rd	-114.5	-60.7	37.8	18.7	116.6	-107.5	191.8
4th	-878.6	-10.6	23.2	40.3	-59.6	-9.8	35.8
5th	97.6	-65.4	1.2	-3	-5	33.5	23.9
6th	-0.6	-56.6	5.6	1.3	-0.2	15.6	14.9
7th	-19.2	-20.1	1.9	-5.6	11.2	8.6	13.3
8th	-35.4	-15.1	-0.4	0.1	7.4	5.3	78.6

RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.144	Flap Bending, in-lb Blade 1, r/R=0.167	Flap Bending, in-lb Blade 1, r/R=0.215	Flap Bending, in-lb Blade 1, r/R=0.280	Flap Bending, in-lb Blade 1, r/R=0.325	Flap Bending, in-lb Blade 1, r/R=0.570
MEAN	78.4	397.3	436.3	460.2	448.7	96.2
RMS	1366.3	786.5	296.2	334.6	405.6	763.3
1/2 P-P	2681.7	1539.3	576.1	636.8	730.4	1261.4
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	953.8	1214.6	581.7	673.6	365.3	75.3
2nd	-651.5	-848.5	-369.9	-484.6	-134.2	-72.9
3rd	5	-162.6	9.1	-96.5	1.4	-24.6
4th	-8.3	5.1	3.5	5.2	15	9.8
5th	-2.3	-12.6	6.1	-4.8	14.7	4.6
6th	3.3	-11.3	5.4	-1.9	7.7	10.4
7th	8.9	-16.1	5.4	-6.2	-3.1	8.3
8th	6.2	-1.6	5.5	2.5	3.5	6.9
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800	Flap Bending, in-lb Blade 1, r/R=0.900	Chord Bending, in-lb Blade 1, r/R=0.144	Chord Bending, in-lb Blade 1, r/R=0.570	Torsion, in-lb Blade 1, r/R=0.400
MEAN	-323	-624.3	-663.7	-2517.8	-2079.4	-562.1
RMS	706.1	552.7	313.9	4419.3	1602.4	326.5
1/2 P-P	1196.1	1156.1	757.8	8058	3760.6	567
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	444.1	-762.6	224.6	-613.5	-127.8	-245.1
2nd	-107.6	312.9	-152.4	171.4	-185.1	-10.1
3rd	120.1	248.6	150.4	236.1	144.8	132.6
4th	-90.9	54.7	-115.6	82.6	-92.3	91
5th	-48.4	-56.1	-60	-77.1	-54	50.9
6th	7.2	-13	23.4	-14.7	28.9	-12.9
7th	6.4	2	3.5	25.4	8.2	27.4
8th	3.1	8.1	-17	14.5	-25.2	17.3

RUN/POINT		Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.174	Chord Bending, in-lb
46/15	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.174	Blade 3, r/R=0.174					
MEAN	-50.8	-465.6	86.9	-1078.1	1338	839.9	839.9	839.9	839.9	839.9	839.9	839.9
RMS	1569.4	5451.2	1722.7	5483.7	4560.7	2931.5	2931.5	2931.5	2931.5	2931.5	2931.5	2931.5
1/2 P-P	2667.9	9348.5	3119.9	9469.3	7818.1	5444.4	5444.4	5444.4	5444.4	5444.4	5444.4	5444.4
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-923.5	1669.5	720.4	-7449.3	-1741.9	-1172.6	7461.5	833.2	6219.7	706.1	3993	-50.2
2nd	666.6	807.6	-529.1	-1538.2	-705.5	-919.1	601.7	1637.3	421	1317.9	193.2	561.5
3rd	-205.2	-24.1	-220.3	54.5	-11.5	165.3	69.5	298.8	55.5	250.2	36.4	70.5
4th	-17.3	-6.1	177.2	52.3	-32.1	-30.8	64.7	15.5	-82.6	-24.4	-719.4	-213.3
5th	-7.3	-17	17.2	43.1	6.2	-49.8	-45.7	25.9	-24.6	4.7	76.4	-47.1
6th	-0.7	5.2	13.6	-4.8	-12.4	-6.1	11.5	-0.7	13.1	-4.7	15.5	-31.2
7th	-14.4	-8.6	-8.7	-41.3	-13	16.8	-28.6	-3.9	-22.3	-3.3	4.6	-3.6
8th	2.3	4.2	-31.8	17.3	-0.8	9.1	-43.1	28.7	-38.1	26.1	-20.8	27.5
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Pitch Link, lb	Pitch Link, lb
46/15	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 4, r/R=0.400	Blade 1	Blade 1				
MEAN	-779.3	-562.6	226.9	-2189.7	-625.1	-625.1	-625.1	-625.1	-625.1	-625.1	-116.4	-116.4
RMS	2190.5	368.5	1470.8	5033.8	328.3	328.3	328.3	328.3	328.3	328.3	44.7	44.7
1/2 P-P	4562.6	621.6	2797.3	8791.5	567.8	567.8	567.8	567.8	567.8	567.8	75.9	75.9
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	2788.6	-445.6	-284.1	364	1116.7	-1341.4	-1026.7	6803.8	-313	-275.1	14.3	58.9
2nd	61.1	257.8	-62.4	220.4	623.5	824.6	-493.6	-1480.5	94.5	-168.8	10.3	-12.5
3rd	9.9	2.8	39.1	37	162.4	-54.3	237	6.6	40.1	-33.4	0.5	0.1
4th	-1044	-216.2	18.5	43.9	-35.1	-20.6	28.9	39.8	5.5	29.9	0.1	-0.3
5th	129.6	-87.2	-0.3	5.4	15.5	21	3.1	-58.6	-7.8	4.4	-0.2	0
6th	22	-33.4	6.9	1.9	6.7	7.1	-8.6	10.1	-4	-1	-0.1	0.1
7th	26.3	-4.9	1.4	-3.1	15.4	2.9	-25.4	-2.7	-1.9	-1.1	0	0
8th	16.4	-6.8	0.5	1.7	-0.4	-6	-43.9	24	0.3	1.8	-0.1	-0.2

RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.144	Flap Bending, in-lb Blade 1, r/R=0.167	Flap Bending, in-lb Blade 1, r/R=0.215	Flap Bending, in-lb Blade 1, r/R=0.280	Flap Bending, in-lb Blade 1, r/R=0.325	Flap Bending, in-lb Blade 1, r/R=0.570
MEAN	935.8	912.5	675.6	542.8	508.6	123.8
RMS	526.7	318.2	202.3	304.2	336	569.2
1/2 P-P	1039.7	669.3	450.2	720.3	743.9	1171.8
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-377.9	-260.8	-261.6	-182.6	-121	-153.1
2nd	38.2	58.8	16.8	34.2	-25.4	5.1
3rd	482	-223.2	263.2	-114.8	-5.8	-19.9
4th	177.3	22.3	95.4	6.2	1.2	-26.7
5th	-91.8	40.7	-35.2	16.5	39.6	-8.9
6th	61.5	-32.6	20.3	-11.3	-36.1	11.3
7th	47.1	-5.1	8.6	-10.1	-46.6	-24.1
8th	-41.8	-63.1	-17.1	3	15.3	99.3
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800	Flap Bending, in-lb Blade 1, r/R=0.900	Chord Bending, in-lb Blade 1, r/R=0.144	Chord Bending, in-lb Blade 1, r/R=0.570	Torsion, in-lb Blade 1, r/R=0.400
MEAN	-249.1	-589.4	-754.2	-7100	-2784.7	-471.8
RMS	682.6	723.6	638.2	3432.3	2472.4	70.3
1/2 P-P	1411.5	1621.3	1658.6	5450.5	4800.1	161.3
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-273.2	-347	-211.5	-275.5	-4.1	-70.9
2nd	-461.4	-12.7	-572.1	-6.4	-470.3	-5.9
3rd	-573	278.9	-563.8	285.6	-493.7	209
4th	128.1	59.7	219.4	79.3	168.7	64.8
5th	-182.7	35.7	-126.3	47.1	40.7	33.7
6th	154.5	-53.9	112.2	-49.9	118.9	-7.7
7th	39	-16.7	-119.6	-23.5	-235.3	-17.9
8th	-6.8	60.5	48.3	242.7	-44.3	249.7

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
46/28	890.5	-4782.5	1059.4	-5012.2	-1941.6	-999.3	-1198.3
MEAN	477.8	3341.2	482.2	3486.8	2932	2223.6	
RMS	947.4	5189.1	990.6	5563.6	4879.4	4603.4	
1/2 P-P							
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	299.8	-142.6	-206.7	-4188.9	180.7	260.4	4361.3
2nd	-40.6	-56.1	-191	-231.9	19.3	60.3	239.1
3rd	-253.9	-464.9	32.3	-326.8	-483.9	238.8	-319.1
4th	173	15.5	-287.1	152.2	198	10.1	97
5th	-43.9	-96	16.9	184.2	97.5	-68.3	-148.7
6th	-73.3	38.5	42.8	12.4	63.9	-31.1	-21.2
7th	-0.3	-49.9	28.1	-75.1	-51	3.9	-44.9
8th	-53.2	-73.7	-366.8	-72.8	-52.8	-59.8	-392.1
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Flap Bending, in-lb Blade 4, r/R=0.400	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
46/28	-1875.2	-454.8	1114.6	-671.8.5	-546.5	-57	
MEAN	2316.9	76.1	484.7	3449.3	72.6	9.2	
RMS	4715	179.6	984.6	5526.6	165.7	18.2	
1/2 P-P							
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	1070.7	-937.7	-61.5	57.2	-214.1	225.8	2074.2
2nd	425	-78.1	-19.9	-1	-72	-55.5	-175
3rd	364.7	370.2	54.9	-8.8	259.8	474.3	-69.9
4th	2177.8	-1773.4	5.2	7.6	196	22.7	-30.7
5th	549.4	-32.2	-6.6	0.6	82	86.2	-12.9
6th	-11.4	-34.4	3.3	-7.7	-54.4	28	-0.8
7th	10.5	30.3	-2.4	8.1	2.8	51.4	-27.2
8th	180.2	40.9	1.7	15.4	-78.1	-65.7	-375.8

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
46/29						
MEAN	842.7	-4933.2	1016.7	-5164.2	-2060.1	-1045.9
RMS	1101.9	1092.2	1152.8	1200.9	1092.7	1594.4
1/2 P-P	1697.9	2040.1	1721.1	2324.8	2333.7	3139.5
HARMONIC	COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE
1st	-455.5	-1355.3 -814.4	-1077.7 1431.3	-472.5 1210.9	-952.5 1094.4	-814 399.3
2nd	-88.7	-93 -312.5	152.8 73.6	106.7 407.4	-160 393.2	-124.7 488.7
3rd	-272.9	-468 53.4	-281.8 -471.5	259.7 -282.8	-58.7 -210.5	-4.9 141.9
4th	182	3.9 -349	198 207.7	7.7 88.4	60.5 368.2	-166.9 1598.4
5th	-30.5	-121.7 0.7	217.5 114	-65.5 -188.2	40 -67.2	18.6 394.4
6th	-70.2	49.7 17.9	-13.3 67.9	-38.3 -47.9	15.1 -44.4	1.6 -41.7
7th	-5.9	-57.3 67.4	-83.2 -64.8	7.6 -41.1	-91.2 -29.1	-78.2 -10.6
8th	-66.4	-82 -328.4	-86 -37.8	-59.9 -369	-113.5 -313.5	-118.2 -143.1
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
46/29						
MEAN	-1928.1	-454.6	1061.9	-6873.4	-546.6	-56.6
RMS	2093.9	72.6	1178.8	1027.2	72.3	24.8
1/2 P-P	4010.7	175.7	1804.6	2048.1	176.6	41.1
HARMONIC	COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE
1st	100.1	-499.3 -38.8	58 573.1	1430.6 697	1101 -44.1	-48.9 -16.7
2nd	511.6	-208.6 -28.4	-10.2 -117.6	-98.4 -312.2	155.4 32.9	12.1 2.6
3rd	407.8	303.8 59.6	-8.2 277.1	474.2 -101.3	262.7 7.1	-59.1 1.8
4th	2033.5	-1829.9 -6	3.9 212.6	10.4 -69.5	112.7 2.1	-7.4 -0.3
5th	619.5	-56.3 -3.6	2.5 80	97.4 -15.8	-234.6 -0.1	-5.6 -0.2
6th	-7.7	-49.1 6.3	-7.6 -55.4	36.5 26.4	40.7 -1	8.7 -0.2
7th	26.5	36.1 -1.1	11.6 11.5	64.5 -44.4	10.3 11.9	-0.6 0
8th	173.8	71 1.9	14.7 -55.6	-41.3 -310.3	-127.1 3.4	14.9 0

RUN/POINT			Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
			Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.370	Blade 1, r/R=0.400	Blade 1, r/R=0.570	Blade 1, r/R=0.570	
MEAN	866.5	868.5	653.9	529.7	498.1	498.1	118.2	118.2	118.2	118.2	118.2	
RMS	1191.8	724.8	326.5	333.5	356.3	356.3	561.2	561.2	561.2	561.2	561.2	
1/2 P-P	2051.9	1249.5	709	866.9	862.4	862.4	1225.2	1225.2	1225.2	1225.2	1225.2	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	
1st	-1323.8	852.9	-841.8	488	-372.3	131.6	-214.1	-63	-186.8	-104.5	-269.2	
2nd	76.6	120.3	38.4	66.7	-19.7	13.4	-76.9	-17	-98.7	-23.6	-250.9	
3rd	458.7	-225.4	249.4	-115.8	-8.3	-18.7	-198.1	66.2	-257.3	112.7	-553.7	
4th	195.1	24.7	106.3	9.9	5.3	-23.7	-87	-41.9	-123	-39.5	-119.6	
5th	-145.1	8	-54.8	0	60.1	-1.5	161.5	-4.4	193.9	-5	-8.5	
6th	52	-52.3	14	-22.7	-41.9	10.9	-84.8	41.4	-92.8	57	64.2	
7th	53.9	-3.5	11.7	-7.1	-48.6	-21.3	-96.8	-26.1	-97.5	-17.1	104	
8th	-65.2	-69.2	-24.5	1.2	30.2	107.5	73	175	82.5	157	31.5	
RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb								
4/6/30	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.144	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.570	
MEAN	-253.1	-585	-740.9	-718.4	-718.4	-718.4	-2806.8	-2806.8	-2806.8	-470.8	-470.8	
RMS	691.9	726.8	645.4	1093	1093	1093	2384.3	2384.3	2384.3	70.1	70.1	
1/2 P-P	1443.6	1518.4	1645.1	2013.7	2013.7	2013.7	4511.2	4511.2	4511.2	162.6	162.6	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	
1st	-305.5	-289.2	-221.2	-230.6	13.5	-63.9	-1343.3	49.9	5.2	228.3	33.6	
2nd	-451.9	-43.4	-555.2	-15.2	-451.7	18	318.7	-267.5	455	-229.3	-35.1	
3rd	-555.8	272.3	-542.9	269.3	-473.8	198.4	289.9	72.8	-497.9	-353.6	-65.2	
4th	130.3	43.8	227.1	41.9	175.8	17.9	-264.9	126.9	2836.2	-1420.5	9.4	
5th	-296.4	-24.1	-263.3	-30.8	-60.9	-36.7	215.2	27.9	-595	-153.7	-1.3	
6th	154.9	-83.4	113.4	-66.4	117.7	-6.5	11.1	-5.2	-63.5	-6.1	-3.3	
7th	39.2	-20.9	-120.7	-16.6	-235.7	14.6	73	41.2	-77.5	-36	-10.1	
8th	-2.1	75.5	94.3	262.2	9.2	271.1	-382	-117.8	409.5	80.5	2.3	

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
46/30						
MEAN	825.4	-4868.7	1003.5	-5087.8	-1998.1	-995.2
RMS	1057.8	1221.7	110.7	1302.1	1149.5	1523.1
1/2 P-P	1924.4	2225.1	1957.6	2540.8	2454	3019.5
HARMONIC	COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE
1st	-835.1	-1080.9	244.2 -1523.5	1161.7 -865.6	1675.4 188.7	124.2 621.4
2nd	-79.2	-102.6	-241.8 232.2	61.1 114	323.6 -247.3	-205.3 440.8
3rd	-264.5	-445.2	46.6 -292.5	-451 247	-300.3 -52	-224.3 -2.5
4th	186.1	14.2	-348.5 179.5	211.7 19.1	77.5 68.8	363.5 -130.1
5th	-21.3	-154.3	-20.3 232.7	143.3 -48.1	-207.3 18.5	-82.8 5.1
6th	-66.6	52.6	13.4 -11.4	62.2 -42.9	-51.6 11.7	-44.7 -0.4
7th	1	-54.7	90.5 -59.7	0 -57.3	-0.4 -82.8	3.9 -70.1
8th	-80.6	-94.9	-395.1 -84.6	-50.5 -73	-430.4 -126.1	-368.7 -130.2
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
46/30						
MEAN	-1892.4	-452.7	1042.7	-6799.4	-544.5	-56.5
RMS	1998.2	72.3	1140	1255.4	71.6	24.7
1/2 P-P	3834.6	174.9	2034.5	2346.8	174.1	39.7
HARMONIC	COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE
1st	247.4	-132.7	-39.4 55.1	946.4 1144.9	-438.5 1581.4	-42.1 -47.9
2nd	463.5	-234.8	-29.8 -12.3	-98.6 -103.1	-252.1 231.4	33.3 13.3
3rd	362.9	299	59.9 -5.4	271.8 459	-93.9 271.5	7.8 -58.4
4th	2082.4	-1588.9	-3.2 6.5	214.5 21.7	-71.4 104.9	2.3 -4.2
5th	690.7	-18.3	-4.5 1.4	59.4 133.9	5.9 -258.5	-1 -4.5
6th	-1.9	-59.5	4.7 -7.7	-53.9 40.8	24.5 30.7	-4.5 8.6
7th	4.8	42	-2.7 11.3	3.7 56.7	-12.2 12.8	9.4 3.7
8th	187.8	75.5	2.9 18.2	-80.2 -51.2	-370 -134.8	3.5 20

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
		Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.370	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570
MEAN	756.9	796.8		624.2		515		484.4		52.5	
RMS	467	270.9		122.2		229		272.3		481.8	
1/2 P-P	969.9	595.2		280.4		558.8		620.7		999.6	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-342.4	349	-234	182.5	-86.9	-13.1	-52.3	-149.5	-51.9	-186.7	-88.3
2nd	20.9	18.2	8.4	11.6	-22.9	6.4	-63.6	2.9	-85.1	3.2	-236.3
3rd	380.5	-147.4	210.9	-75.3	4.7	-17.4	-155.9	28.2	-216.7	59.5	-457.9
4th	115.6	44.5	62.3	19.5	1.2	-21.1	-60.3	-48.4	-86.3	-50.8	-74.5
5th	-24.3	-67	-9.2	-24.3	0.5	25.8	0.1	77.2	3.5	101	30.7
6th	48.9	-13	16.1	-4	-26.8	5.7	-66	10.8	-77.7	13.8	5.5
7th	12.2	1.7	5.9	-0.1	-6.7	-3.5	-16.7	0.9	-15.3	1.4	5.3
8th	-0.3	-70.7	-12.9	-9	-32.4	78.8	-49.6	141.1	-39.5	139.6	85.5
RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
46/31	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.400	Blade 1, r/R=0.400
MEAN	-341.9	-700.3	-791.8	-7452.2	-2774.9	-474.7					
RMS	564.8	597.1	498.1	2562.7	1696.6	95.9					
1/2 P-P	1151.6	1270	1239.6	4061.5	3624.6	192.2					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-134.6	-370.7	-57.8	-285.4	-0.9	-91	-3466.6	899.1	-577	481.7	86.3
2nd	-394.6	32.3	-497.1	19.7	-361.3	12	197.3	68.1	351.2	-171.2	-33.8
3rd	-417.2	243.4	-357.5	267.7	-335.6	201.8	240.2	21.8	-372.5	-290.8	-38.7
4th	83.6	72.5	152	81.7	166.7	85.5	-138.8	52.5	1664.1	-1267.6	3.8
5th	26.1	-216.4	25.6	-258.4	83.4	-193.8	143.1	111.6	-347.4	-372.7	-5.8
6th	106	-40.1	78.4	-45.4	-1.5	-30.2	-13.1	-45.5	-29.3	60.7	6.8
7th	8.3	3.8	-35.8	-15.5	-80.3	7.7	27.5	15.2	-14.2	-2	-1.1
8th	-39.5	52.7	-80.7	222.9	-77	218.4	-229	-276.3	267.1	260	-9.9

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
46/31	704.2	-5072.4	871.2	-5332.8	-2198.7	-1079.5
MEAN	390.2	2693.4	400.9	2886.6	2430.2	1723
RMS	821.9	4075.4	847.7	4539.6	3956.1	3476.1
1/2 P-P						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-274.3	-11.4	-671.8	-3704.1	83	-312.8
2nd	8	-12.7	-159.6	-123.6	-21.7	13.3
3rd	-175.1	-402.4	-1	-258.5	-402.1	164.3
4th	104	37.9	-191.4	91	124.7	33.6
5th	91.5	-39.3	-84.2	152.9	26.8	43.5
6th	-53.9	18.1	20	39.1	47.7	-12.5
7th	2.9	-11.9	37.5	8.1	-18.8	0.6
8th	3.4	-97.7	-246.6	-244.6	-3	-62.1
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
46/31	-1903.5	-459.2	931.3	-7017.1	-546.8	-58.3
MEAN	1662.9	107.5	439.7	2769	100.5	6.1
RMS	3525.8	213.1	964.5	4306.6	187	13.1
1/2 P-P						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	1118.8	-533.2	-92.5	107.9	368.7	116.3
2nd	369.3	-125.1	-24.8	8.1	-27.9	-18.5
3rd	267.3	291	38.2	-5.6	185.1	403
4th	1223.2	-1351.8	-8	4.9	127	46.8
5th	452.2	323.5	-2.1	-0.1	-74.1	60.5
6th	-11.1	51.9	1.9	-5.4	-48.2	9.9
7th	-25.3	-24.3	2.7	-0.2	-0.1	15.6
8th	106.3	117.2	-10.3	13.1	-22.3	-85.4

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
		Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.370	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570
MEAN	805	824.1		633.7		515.2		483		54.4	
RMS	1420.8	872.8		365.7		257.6		274.5		477.1	
1/2 P-P	1973.3	1221.6		646.7		603.8		607.7		979	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-1929.3	382.3	-1197.7	194.4	-495.5	-9.6	-208.3	-144.8	-162.2	-179.2	-154.5
2nd	118.4	46.4	68.2	28.2	-3.7	9	-67	-2.7	-95.9	-3.3	-271.8
3rd	315.5	-147.2	174.7	-76.8	-0.3	-18.8	-140.6	28.1	-194.4	61.4	-422.5
4th	130.9	50.8	69	23.6	0.2	-22.2	-68.2	-52.3	-95.3	-55.1	-81.4
5th	-41	-39.6	-12.6	-16.9	18.2	9.8	36.6	37.7	44.7	52.3	20.8
6th	42.4	-22	13.8	-7.5	-24.4	8.8	-56.7	20.5	-67.2	25.2	47.4
7th	15.3	0.5	3.6	-2.1	-16.5	-8.9	-31.1	-5.2	-29.1	-2.2	12
8th	-44.7	-43.7	-19.3	0.9	17.5	65.3	40.4	108.1	45.2	100.2	-32.1
RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
46/32	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.400	Blade 1, r/R=0.400
MEAN	-333.5	-695.3		-796.3		-7748		-2826.4		-474	
RMS	564	579.3		476.8		1191		1559.4		90.5	
1/2 P-P	1213.1	1214		1194.9		2207.5		3178.5		172.1	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-163	-344.1	-51	-261.9	37.8	-78.1	212.1	1528.1	133.5	540.5	68
2nd	-428	11.5	-513.7	7.8	-348.5	22.2	412.4	-149.7	440.1	-210.4	-38.1
3rd	-398.5	281.4	-352.6	302.9	-340.6	225.3	257.4	-3.1	-381.3	-226	-31
4th	91.4	68.5	156.8	66.8	149.8	61.3	-165	35.9	1597.2	-1081.2	1.7
5th	-51.4	-122.2	-50.4	-153.4	30.2	-119	162.6	50	-427.7	-215.2	-2
6th	106.9	-53.1	102.7	-52.4	46.5	-25.4	-14.2	-25.3	-5.2	46.4	6
7th	23.5	-9	-33.6	-37	-73.4	-6.7	49.4	5.9	-22.1	-3.2	-2.2
8th	0.3	42.7	48.5	158.1	34.3	151.8	-338.3	-58.9	357.3	14.8	-2.5

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
MEAN	751.1	-5343.6	913.9	-5618.8	-2438.3	-1231.1
RMS	1209.2	905.9	1249.1	1050.2	938.5	1103.1
1/2 P-P	1677.6	1859.2	1714.3	1925.7	1757.5	2119.2
HARMONIC	COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE
1st	-363.1	-1611.5	-1102	-171.9	1677.9	-351.3
2nd	-91.4	-33.6	-347.5	117.3	77.8	44.3
3rd	-173.3	-338.6	-8.9	-235	-334.3	162.4
4th	127.4	46.1	-181.1	99.4	143.4	52.1
5th	51.5	-62	-57.2	157.1	39.7	5
6th	-47	36.4	2.5	17.3	48.1	-24.5
7th	0.8	-15.2	49.9	-19.5	-21.1	0.3
8th	-70.9	-76.4	-337.6	-21.9	-48.9	-53.7
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
MEAN	-1989	-458.2	973.7	-7320.4	-548.1	-58
RMS	1354.4	101.7	1303.1	859.8	96.1	20.3
1/2 P-P	2712.3	194.3	1813.6	1670.1	183.2	34.6
HARMONIC	COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE	SINE COSINE
1st	-50.7	-636.9	-72.8	114	467.5	1724.6
2nd	454	-206	-28.5	0.7	-129.5	-40.8
3rd	287.3	217.9	29.4	-3.4	172.8	337.8
4th	1073.4	-1193.5	-7.3	-11.7	147.5	52.3
5th	487.4	108.2	-0.4	1.1	-19	67.8
6th	-23.7	11.3	3.2	-4	-46.5	27.9
7th	-16.4	-8.6	4.7	2	1.6	20.1
8th	158.9	39.7	-2.9	8.5	-66.9	-40.4

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.370	Blade 1, r/R=0.570	Blade 1, r/R=0.400	Blade 1, r/R=0.570	Blade 1, r/R=0.570
MEAN	855.6	856.4	648.2	523	490.5	56				
RMS	635.5	387	167.8	227.2	265.1	483.5				
1/2 P-P	1116.5	695.1	375.6	555.2	604.6	986.1				
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-715.4	329.2	-461.9	168.7	-182.8	-21.2	-88.9	-155.4	-76.8	-192.1
2nd	52.4	13.5	27.7	8.9	-17.3	4.8	-67.1	0.3	-91.6	-101.8
3rd	361.1	-165	201.3	-85.4	4.4	-18.6	-149.9	31.9	-208.4	-255.6
4th	120.6	47.4	65.1	21	3.4	-23.4	-59.9	-54.4	-86.4	-447.7
5th	-34.5	-39.8	-13.3	-16.3	6.5	11.2	14.2	40.1	20	-79.5
6th	45.2	-15	14.1	-5	-27.6	5.5	-64.7	10.8	-75.6	-13.9
7th	11.1	2.4	2	0.2	-15.6	-4.4	-27.6	-0.4	-24.5	0.5
8th	-15.1	-59.2	-17.5	-5.5	-21	71.6	-25.7	125.6	-16.1	121.9
										-140.1
RUN/POINT	Flap Bending, in-lb	Flap Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Torsion, in-lb	Torsion, in-lb	
46/33	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.400	
MEAN	-336.9	-701.4	-800.3	-7476.9	-2776.2	-473.3				
RMS	564.7	585.7	494.4	2190.3	1765.9	94.4				
1/2 P-P	1227.3	1291.3	1293.8	3633.1	3691.5	190.5				
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-139.4	-361.5	-52.6	-273.9	9.7	-85.7	-2817.4	1147.1	-446.7	522
2nd	-417.3	23.7	-514.3	11.1	-366.5	9.5	234	36.2	382.9	-180.3
3rd	-417.1	265.8	-364.4	287.8	-346	213.7	249.3	26.8	-382.5	-270.4
4th	79.4	87.1	144.6	98.5	153.1	98.3	-153.7	69.9	1734.7	-1387.2
5th	-7.3	-133.5	-6.6	-161.7	65	-125.7	160.8	80.8	-399.6	-276.1
6th	102.4	-37.5	80.2	-37.4	9.4	-20.9	-7.8	-31.5	57.4	6.3
7th	10.3	2.4	-47.3	-21	-94.9	1.6	42.7	16.1	-24.1	-1.6
8th	-28.3	49.3	-47	196.6	-51.2	189.2	-301.1	-221.7	341	200.9

RUN/POINT	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325
MEAN	803.8	-5097.3	971.5	-5357	-2228.4	-1128.6		
RMS	465.5	2320.7	500.8	2485.5	2116.3	1609.5		
1/2 P-P	956.5	3666.7	978.1	4113.4	3614.3	3367.8		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-266.1	-384.3	-874.5	-3105.9	459.8	-296.2	3317.8	-991.4
2nd	-23.8	-8	-197.3	-83.4	13	10.3	280.9	82.1
3rd	-187.4	-383.2	-0.2	-257.1	-379.7	177.2	-245.4	-1
4th	108.7	41.7	-209.8	114.3	125.5	39.9	67.5	5.6
5th	57.2	-47.2	-78.1	164.2	35.6	8.5	-184.3	-51
6th	-50.1	20.9	15.9	31.9	46.8	-12.8	-17.2	-22.6
7th	4.9	-15.1	27.2	-6.5	-18.7	-0.6	13.1	-9.2
8th	-20.2	-91.2	-315.5	-196.2	-11.4	-58.1	-326.2	-222.2
RUN/POINT	Chord Bending, in-lb	Torsion, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb	Pitch Link, lb
	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 4, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 1
MEAN	-1922.5	458	1029.8	-7051.5	-546	-56.9		
RMS	1666.1	105.4	546.3	2354.9	98.9	8.6		
1/2 P-P	3559.9	204.7	1099.7	3789.4	183.5	16.7		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	911.8	-602.9	-89.9	106.8	367.4	486.4	758.7	3196.7
2nd	398.7	-152.3	-26.9	7.3	-59.7	-10.8	-200.8	-79.8
3rd	282.8	264.7	35.3	-6.6	201.3	381.2	-32	234.5
4th	1263.2	-1448.4	-5.6	2.5	134.7	47	-1.9	83.5
5th	485.7	192.1	-2.2	-0.8	-37.7	59.4	89.2	-174.8
6th	-19.1	37.9	2.2	-5.2	-45.1	13.3	9.8	34.6
7th	-18.3	-18.4	3.7	0.4	-0.7	19.8	18.3	6.8
8th	135.1	98.1	-8.3	13.2	-42.1	-68.6	-288.4	-215.7

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
		Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.370	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570
MEAN	741.7	789.3	620.6	518.9	489.8	43.3					
RMS	251.8	137.5	145.7	252.5	291.2	496.8					
1/2 P-P	495.5	287.8	361.7	607.7	646.1	988.2					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	146.7	59.1	81	-8.1	99.4	-144	105.6	-273.2	108.6	-315.8	178.4
2nd	-48.9	-194.6	-22.6	-108.4	-21.1	-11.3	-39	57.3	-55.5	75.6	-221.4
3rd	163.4	-120.8	94.5	-69.9	7.3	-23.9	-60.3	19	-90.5	48.8	-222.9
4th	59.8	20.5	33.6	4.8	4.1	-19.6	-23.7	-35.3	-40.4	-34.1	-53.9
5th	-12.6	-80.6	-1.9	-29.5	3.1	34.3	5.2	98.1	8	124.5	13.6
6th	26.3	-17.7	11.4	-7.8	-8.9	1.8	-28.9	11.5	-36.3	20.8	35
7th	-8.4	3	2.2	-2.6	16.4	-9.3	28.8	-10.1	28.6	-6.6	-31.6
8th	-6.1	-61.7	-13.6	-12.6	-28.5	60	-37	117.6	-22.9	119.8	75.9
RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
46/34	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.400	
MEAN	-440.2	-786.7	-822.9	-6905.4	-2672	-491.6					
RMS	595.4	588.3	404.7	3545.5	1399	177.6					
1/2 P-P	1200.2	1217.8	1056.3	5509.5	3070.3	313.1					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	202.3	-498.3	157.2	-377.7	-35.1	-121.6	-4633	179.8	-1148.4	810.1	165.8
2nd	-423.9	93.9	-420.3	53.2	-245.8	17.6	308.3	466.4	328.4	-99.6	-67
3rd	-192.9	339.8	-232.4	350.3	-215.4	246.8	205.2	-94.1	-263	-84.7	-11.4
4th	33.1	23.5	100	68.1	56.6	72.7	-52.1	37.7	619.9	-1000	4.7
5th	6.5	-243.6	25.2	-327.4	85.5	-209.8	72.3	108.1	-187.2	-396.6	18.6
6th	70.6	-22.5	17.8	-41.3	-18.7	-53	-19.5	-28.7	-4.1	33.3	-6.1
7th	8.8	-17.3	22.8	14.1	-27	8	-16	8.3	21.6	6.7	-3.6
8th	-42.5	35.9	-39.1	180.7	-18.1	232.3	-248.7	-272.9	233.7	0.3	1.7

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
MEAN	677.8	-4507.1	823.3	-4752.9	-1737.9	-898.3
RMS	512.4	3858	475.6	3955.5	3326.8	2242.5
1/2 P-P	1075.2	5772.2	949.1	6003.8	5110.4	3941.8
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	105.1	613.5	-1579	-5161.4	-568.2	31.4
2nd	93.8	169.2	-300.8	-563.5	-112.2	-178.7
3rd	-146.5	-215.3	-114.9	-183.2	-189.6	149.7
4th	68.9	31.8	-3	98.3	76.6	28.2
5th	107.8	-16.2	-102.7	79.1	41	86.1
6th	-33.9	21.3	27.9	10.3	31.5	-19.4
7th	3.3	8	-4	28.6	4.4	-3
8th	-17.1	-93.1	-265.6	-228.4	-15.9	-63.4
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
MEAN	-1791.7	-481.8	913.2	-6461.2	-562.7	-67.8
RMS	1770.1	197.8	387	3877.7	185.3	16.1
1/2 P-P	3634.8	335.4	792.1	5853.9	320.2	26.9
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	1877.2	-1002.3	-175.4	201.7	-439.6	1539.4
2nd	247	52	-51.8	55.4	38.3	189.9
3rd	206.3	124	16.1	-0.7	140.3	165
4th	440.3	-1045.4	6	20.4	73	20.1
5th	290.1	442.8	0.1	1	-68.5	30.1
6th	27.3	15.7	7.4	-1.4	-29.1	15.5
7th	-31.6	-30.6	-0.2	-1.4	-3.4	-5.2
8th	119	88.4	-0.6	8.1	-21.4	-69.9

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
MEAN	793	814.4	628.8	513	479.3	28.3							
RMS	1640.2	995.3	387.8	260	287.3	491							
1/2 P-P	2259	1384.4	666.8	618.3	638.7	993.9							
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-2262.5	429.7	-1384.2	203.2	-525.7	-58.3	-131.3	-243.7	-55.6	-295.8	82.9	-540.9	
2nd	34.3	-148.5	27	-82.8	-6.4	-2.6	-44.1	56.4	-67.5	73.5	-242.9	136.8	
3rd	157.8	-50.5	88.5	-30.6	2.7	-17.4	-66.4	3.5	-98.8	24.3	-229	114	
4th	65.7	30.9	36.8	11.3	6	-20.1	-23.4	-35.9	-40.9	-32	-57.4	1.1	
5th	-10.9	-103.3	-0.1	-41.9	4.7	31.1	6.6	106.6	6.3	138.7	14.6	14.7	
6th	26.1	-30.7	12.4	-11.9	-5.4	8	-20.9	26.8	-30.9	36.7	30.1	-9.8	
7th	-13.3	-15.1	-2.8	-8.2	9.2	4.8	24.6	22	27.8	28.4	-23.2	-37.5	
8th	-14.6	-73.1	-15.7	-13.5	-22.6	73.6	-25.1	146.5	-12.6	148.6	70.1	-177.1	
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Chord Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400			
MEAN	-459.1	-796.9	-824.9	-7680	-2772	-486.7							
RMS	615.9	631.3	484.3	1745.4	1358	168.2							
1/2 P-P	1253.5	1388.9	1256.6	3026.8	2754.7	280.1							
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	175.5	-506.3	175.6	-390.6	27.2	-134.1	1190.9	2042.4	-46.6	836.4	137.5	-179.4	
2nd	-462	112.1	-453.1	95.4	-248.6	65.6	483.5	-152.7	382.4	-232	-58.9	35.2	
3rd	-199.4	275.4	-244.7	282.7	-229	205.6	186.8	-83.7	-250.4	-118	-13.2	7.1	
4th	36.2	44.2	118.9	98.1	71.4	101.7	-126.4	42.2	1011.7	-1114.8	0	-5.3	
5th	0.2	-293.1	18.9	-388.1	87.1	-258.3	71.8	145.6	-181.2	-467.1	4.4	-8.4	
6th	84.5	-40.2	35.6	-71	3.8	-81.9	-10.7	-8.9	-18.2	9.2	6.7	-4.7	
7th	13.9	-19.6	23.8	55.9	-37.2	66.2	35.8	-9.9	-33.6	26.2	-2.2	0.2	
8th	-45.3	43.2	-17.1	233.6	5.1	301.4	-281.8	-213	304.1	190.3	-2.9	5.4	

RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
MEAN	732.9	-5211.7	879.8	-5478	-2333.3	-1208.2
RMS	1309.7	1258.8	1353.1	1424.6	1223.9	1184.2
1/2 P-P	1835.1	2350.2	1858.2	2622.1	2286.7	2143.7
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-336.7	-1791	-1612.4	388.7	1858.5	-341.7
2nd	14.6	146.3	-436	44	-34.2	-141.7
3rd	-76.4	-222.6	-66	-176.4	-184.9	92.1
4th	73.5	35.6	-47.8	77.1	77.6	30.3
5th	100.8	-16.4	-143.4	108.6	35.5	84.1
6th	-27.7	29.4	4.4	13.5	27.1	-31.1
7th	-12.7	14.9	18.3	-3.4	13.2	14.5
8th	-28	-96.5	-299.3	-173.9	-28.2	-78.2
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
46/35	-1957.7	-475	971.9	-7210	-557.4	-64.1
MEAN	1290.8	188.7	1469.7	1322.1	177.2	13.8
RMS	2491.6	315.2	2033.7	2350.9	291.1	25.4
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	119.2	-1017	-144.7	213.8	468.7	2002.5
2nd	414	-182	-44	44.2	-53.4	163.2
3rd	201.5	140.6	14.5	-5	81.6	174.8
4th	550	-1155.6	1.9	-1.3	81.8	20.6
5th	313.7	462.2	-2.9	2.2	-69.2	18.4
6th	2.4	1.9	5.2	-3.7	-22.2	27.3
7th	-31.8	-26.9	1.1	-1.6	16.5	-15.4
8th	135.5	85.3	-1.1	9	-29.7	-70.1

RUN/POINT		Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
MEAN	830.6	843.3	642.8	525.4	493.2	44.5							
RMS	627.3	355.9	88.5	216.1	267.2	496.6							
1/2 P-P	1153.7	651.2	218.3	555.5	600	1030.2							
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-452.5	691.6	-286	373.7	-54.4	15.8	51.7	-215.6	74.9	-278.6	163.9	-533.1	
2nd	-18.1	-198.4	-5.6	-111.9	-16.2	-12.8	-42.2	56.2	-60.8	74.7	-223.7	143.8	
3rd	191	-102.1	110.4	-58.1	11.4	-20.8	-63.6	13.9	-97	39.5	-239.3	146	
4th	60.9	27.2	33.6	8.6	3.9	-19.7	-23.2	-35.4	-38.8	-34.5	-56	3.8	
5th	-10.5	-68.2	-2.8	-26	-0.1	25.9	-1.1	78.7	-2.7	103.4	17.1	10	
6th	24.6	-20.8	11.8	-6.9	-5.1	8.1	-20.6	20.3	-30.6	28	30.9	-4.1	
7th	-3	1.6	1.8	1.2	8.6	2.3	17.3	7.7	18.4	9.8	-17.1	-18.3	
8th	-4.7	-71.9	-10.7	-12.6	-24.8	74	-34.7	143	-21.7	144.5	80.7	-169	
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Chord Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400			
MEAN	-450.2	-800.4	-838.5	-7138.9	-2703.5	-490.1							
RMS	592	589.5	413	2320.7	1348	175.7							
1/2 P-P	1179.1	1261.6	1074.6	3750.4	3059.2	301.4							
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	207.8	-513.2	172.6	-400.2	-16	-142.1	-3132.8	798.2	-881.2	648.9	163.1	-166.7	
2nd	-424.1	104.8	-414.2	69.2	-231.1	28.5	197.3	223.6	295.3	-152	-68.4	43.7	
3rd	-201.2	301	-240.6	305	-218.8	212.3	191	-64.5	-251.1	-88.8	-16.7	1.2	
4th	29.3	45.7	103.3	101.2	57.7	102.8	-68.7	44	770.2	-1138.5	4.7	7.6	
5th	14	-224.4	35.3	-304.8	95.7	-199.8	58.5	122.1	-149.4	-384.2	5.3	-4.2	
6th	75.4	-30.6	23.2	-54.9	-7	-63.4	-8	-14.9	-20.9	6	7.3	-4.8	
7th	12.1	-10.8	12.3	41.9	-48.3	42.5	-19.4	6.5	11.5	3.3	0.8	2.7	
8th	-43.7	45.9	-37.1	219	-22	273.9	-265.2	-252.2	285.7	239.7	-2.2	9.3	

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13. ABSTRACT (Maximum 200 words) A full-scale BO-105 hingeless rotor system was tested in the NASA Ames 40- by 80-Foot Wind Tunnel on the rotor test apparatus. Rotor performance, rotor loads, and aeroelastic stability as functions of both collective and cyclic pitch, tunnel velocity, and shaft angle were investigated. This test was performed in support of the Rotor Data Correlation Task under the U.S. Army/German Memorandum of Understanding on Cooperative Research in the Field of Helicopter Aeromechanics. The primary objective of this test program was to create a data base for full-scale hingeless rotor performance and structural blade loads. A secondary objective was to investigate the ability to match flight test conditions in the wind tunnel. This data base can be used for the experimental and analytical studies of hingeless rotor systems over large variations in rotor thrust and tunnel velocity. Rotor performance and structural loads for tunnel velocities from hover to 170 knots and thrust coefficients (C_T/s) from 0.0 to 0.12 are presented in this report. Thrust sweeps at tunnel velocities of 10, 20, and 30 knots are also included in this data set.							
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RUN/POINT	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
46/36						
MEAN	759.5	-4721.5	914.6	-4951.4	-1903.3	-994.2
RMS	457.9	2766.9	495.5	2879.4	2449.5	1765.1
1/2 P-P	860.1	4198.9	934.8	4548.6	3916.2	3330.4
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-539.6	42	-610	-3816.5	33.9	-609.2
2nd	70.6	172.6	-187	-337.3	-84.8	3968.7
3rd	-122.5	-228.7	-77.4	-190.2	-208.6	-183.2
4th	70	32.1	-36.3	95.2	70.5	125.4
5th	85.6	-4.8	-93	79.8	25.4	69.9
6th	-29.3	18.1	27.8	12.3	23.3	-19.2
7th	-2.8	4.3	-0.4	29.4	1	-0.7
8th	-6.4	-87.1	-268.8	-231.8	-24.3	-64.1
RUN/POINT	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
46/36						
MEAN	-1839.4	-480	1003.2	-6688.4	-560.3	-63
RMS	1559.3	195.1	531.6	2691	182.3	8.6
1/2 P-P	3269.5	319.6	1005.5	4114.3	302.5	17.8
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	1488.3	-699.9	-172.8	200.1	659.8	149.4
2nd	249.5	-35.7	-52.6	51.6	6.2	191.3
3rd	198.4	121	19.4	-3.3	130.3	187.6
4th	547.9	-1204.2	1.4	10.3	73	24.3
5th	228.4	410.3	-2.5	-0.5	-63.6	-11.9
6th	14.2	23.4	5.4	-1	-22.3	16.4
7th	-27.6	-32.3	-0.7	-2	3.3	-2.2
8th	117.5	93.7	-2.3	9.2	-25.8	-71.8